

SIDE VIEW - PREFABRICATED 2 COLUMN BENT PIER

SCALE: 3/16" = 1'-0"

NOTE: DIMENSIONS SHOWN ARE SPECIFIC TO EACH PIER  
DIMENSIONS WILL VARY ON DIFFERENT BRIDGES  
COLUMN SHEAR REINFORCEMENT NOT SHOWN FOR CLARITY

ELEVATION - PREFABRICATED 2 COLUMN BENT PIER

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REVISIONS

UTAH DEPARTMENT OF TRANSPORTATION

STANDARD DRAWINGS FOR ROAD AND BRIDGE CONSTRUCTION

SALT LAKE CITY, UTAH

RECOMMENDED FOR APPROVAL

CHAIRMAN STANDARDS COMMITTEE

APPROVED

DEPUTY DIRECTOR

STANDARD PRECAST PIERS

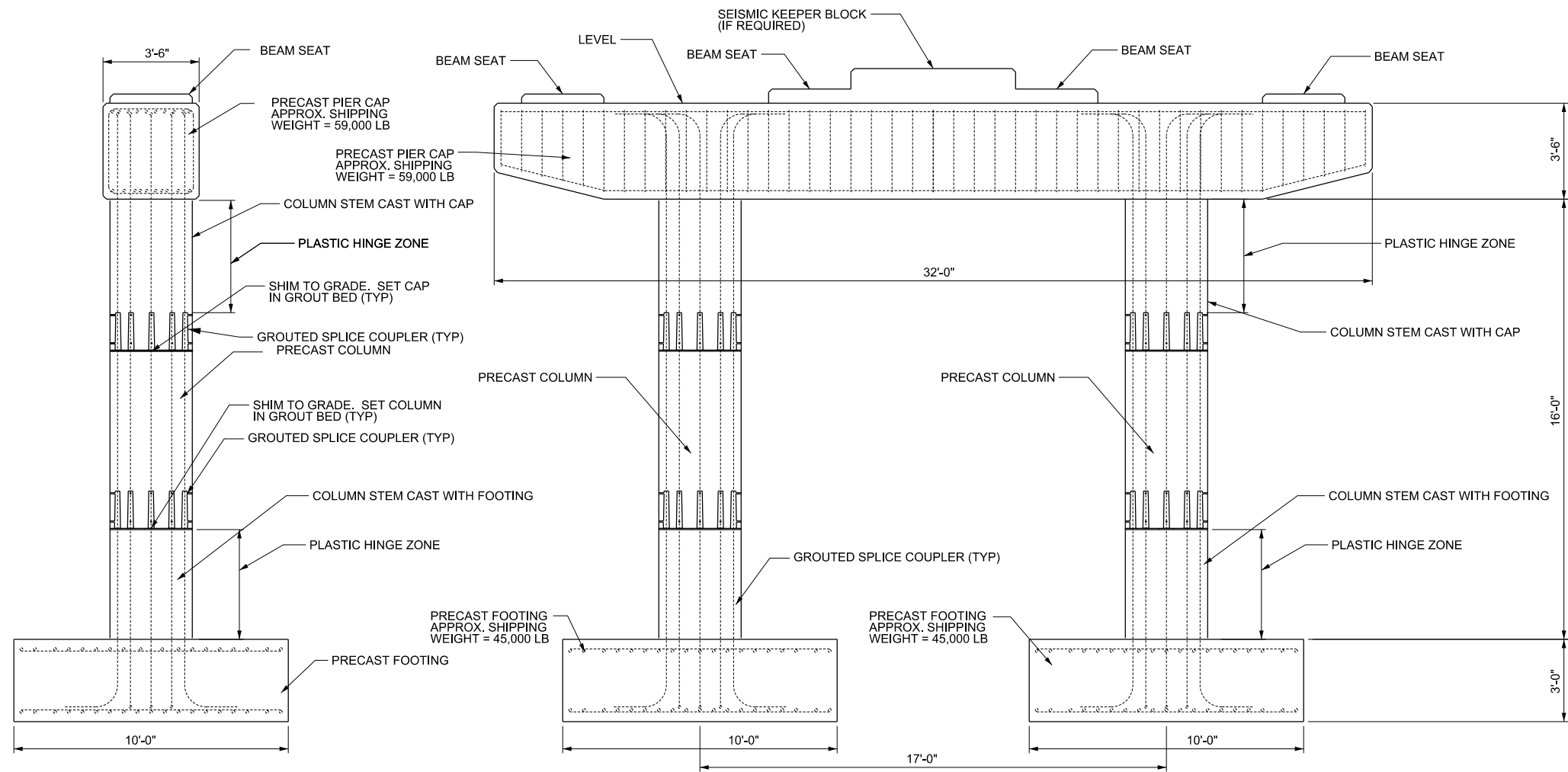
2 COLUMN BENT PIER

FOR LOW SEISMIC ZONES

STD. DWG. NO.

P-1

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SIDE VIEW - PREFABRICATED 2 COLUMN BENT PIER

SCALE: 3/16" = 1'-0"

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DETAILS FOR HIGH SEISMIC ZONES

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DETAILS FOR HIGH SEISMIC ZONES

REVISIONS

NO.	DATE	APPR.	REMARKS

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SALT LAKE CITY, UTAH

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DATE

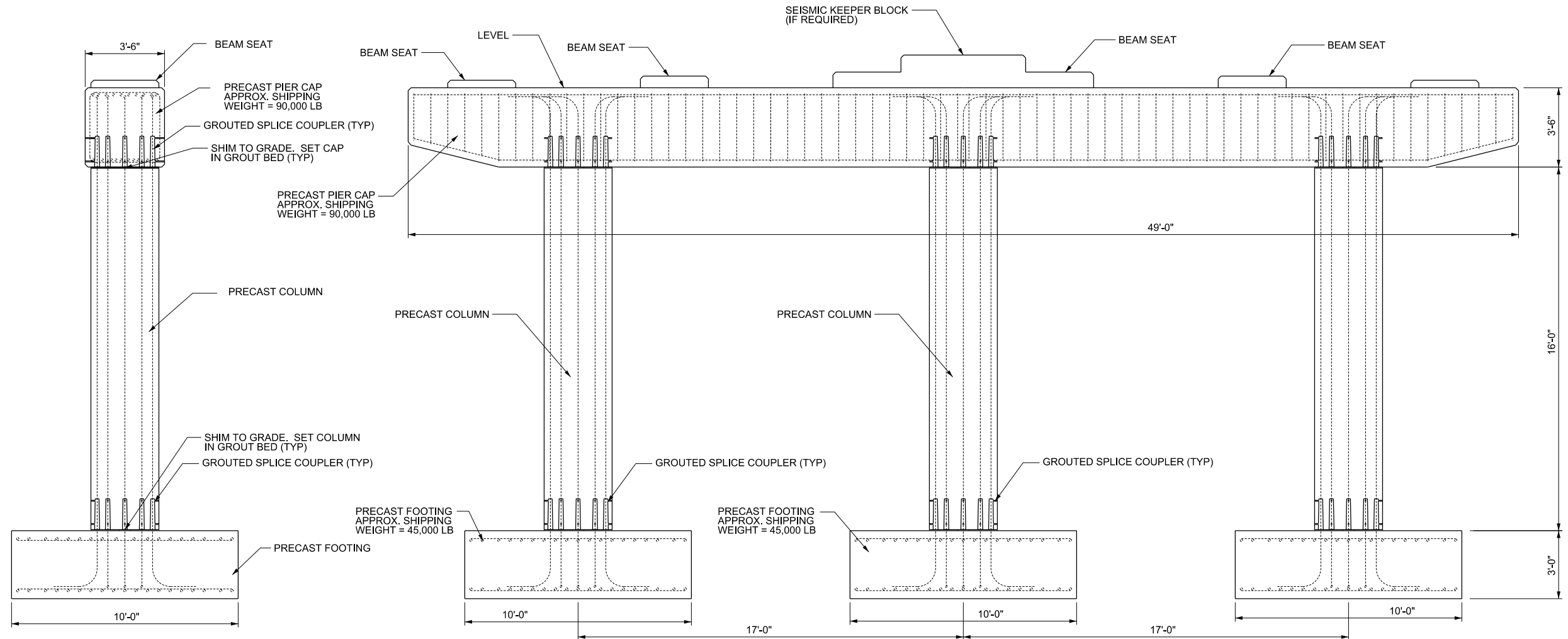
DATE

STANDARD PRECAST PIERS  
2 COLUMN BENT PIER  
FOR HIGH SEISMIC ZONES

STD. DWG. NO.

P-2

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**SIDE VIEW**  
**PREFABRICATED 3 COLUMN BENT PIER**  
SCALE: 3/16" = 1'-0"

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COLUMN SHEAR REINFORCEMENT NOT SHOWN FOR CLARITY

**ELEVATION**  
**PREFABRICATED 3 COLUMN BENT PIER**  
SCALE: 3/16" = 1'-0"

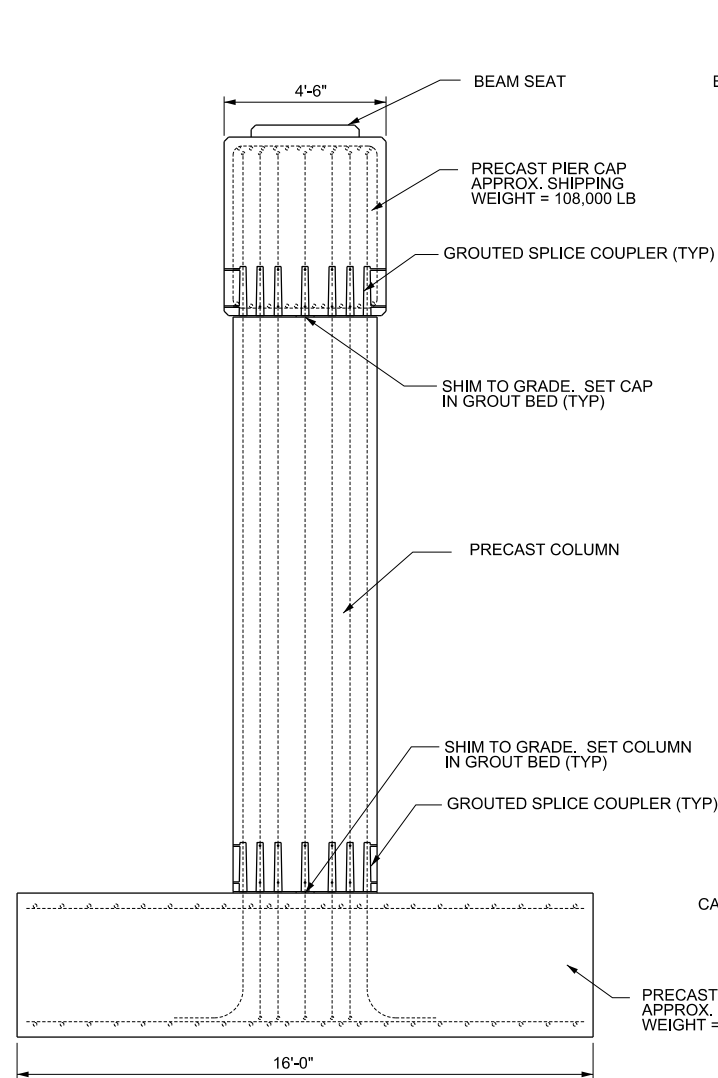
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COLUMN SHEAR REINFORCEMENT NOT SHOWN FOR CLARITY

REVISIONS				

<b>UTAH DEPARTMENT OF TRANSPORTATION</b> STANDARD DRAWINGS FOR ROAD AND BRIDGE CONSTRUCTION SALT LAKE CITY, UTAH		RECOMMENDED FOR APPROVAL	DATE
		CHAIRMAN STANDARDS COMMITTEE APPROVED	DATE
		DEPUTY DIRECTOR	DATE

STANDARD PRECAST PIERS 3 COLUMN BENT PIER FOR LOW SEISMIC ZONES	
STD. DWG. NO. <b>P-3</b>	

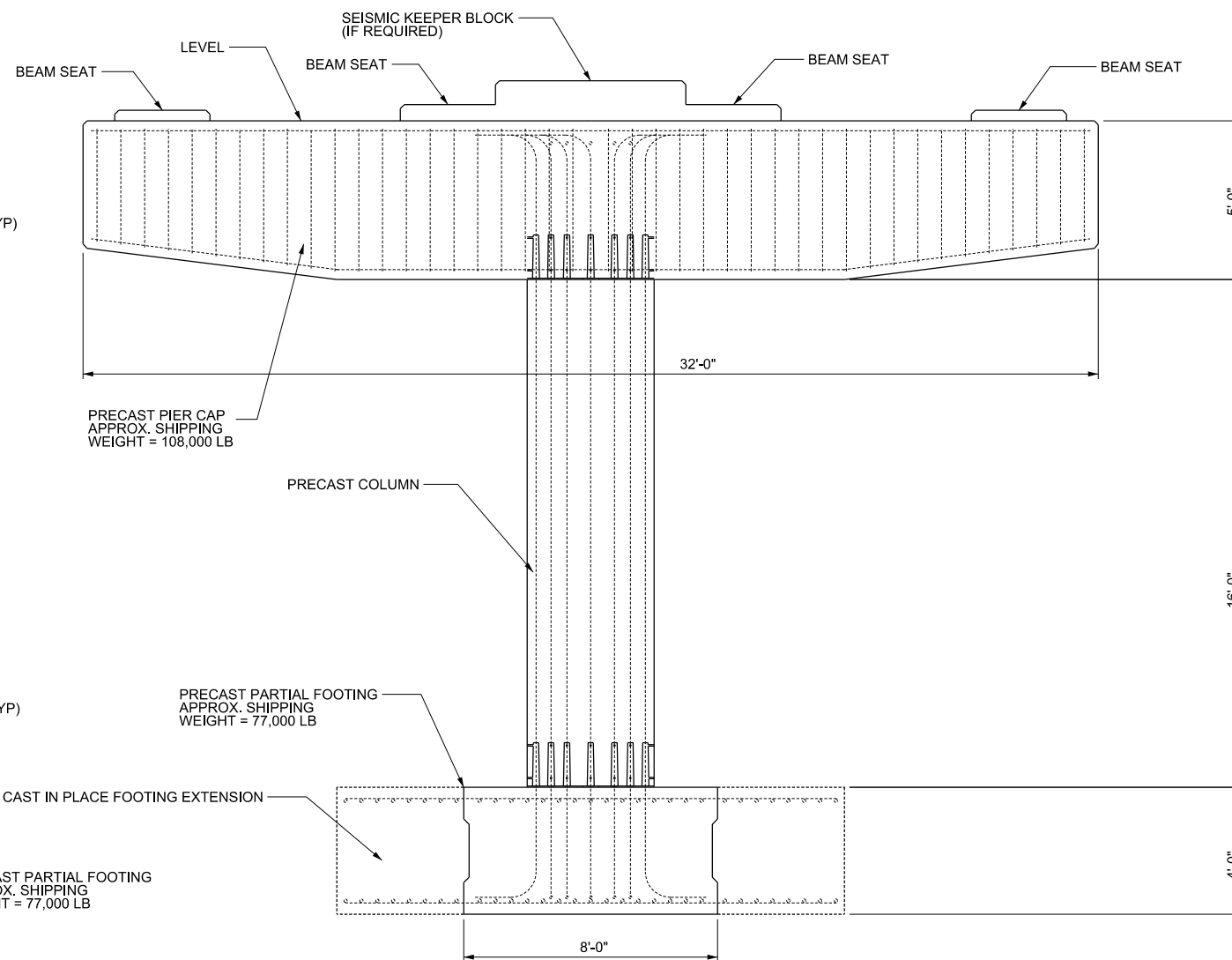




SIDE VIEW - PREFABRICATED HAMMERHEAD PIER

SCALE: 3/16" = 1'-0"

NOTE: DIMENSIONS SHOWN ARE SPECIFIC TO EACH PIER  
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### ELEVATION - PREFABRICATED HAMMERHEAD PIER

SCALE: 3/16" = 1'-0"

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COLUMN SHEAR REINFORCEMENT NOT SHOWN FOR CLARITY

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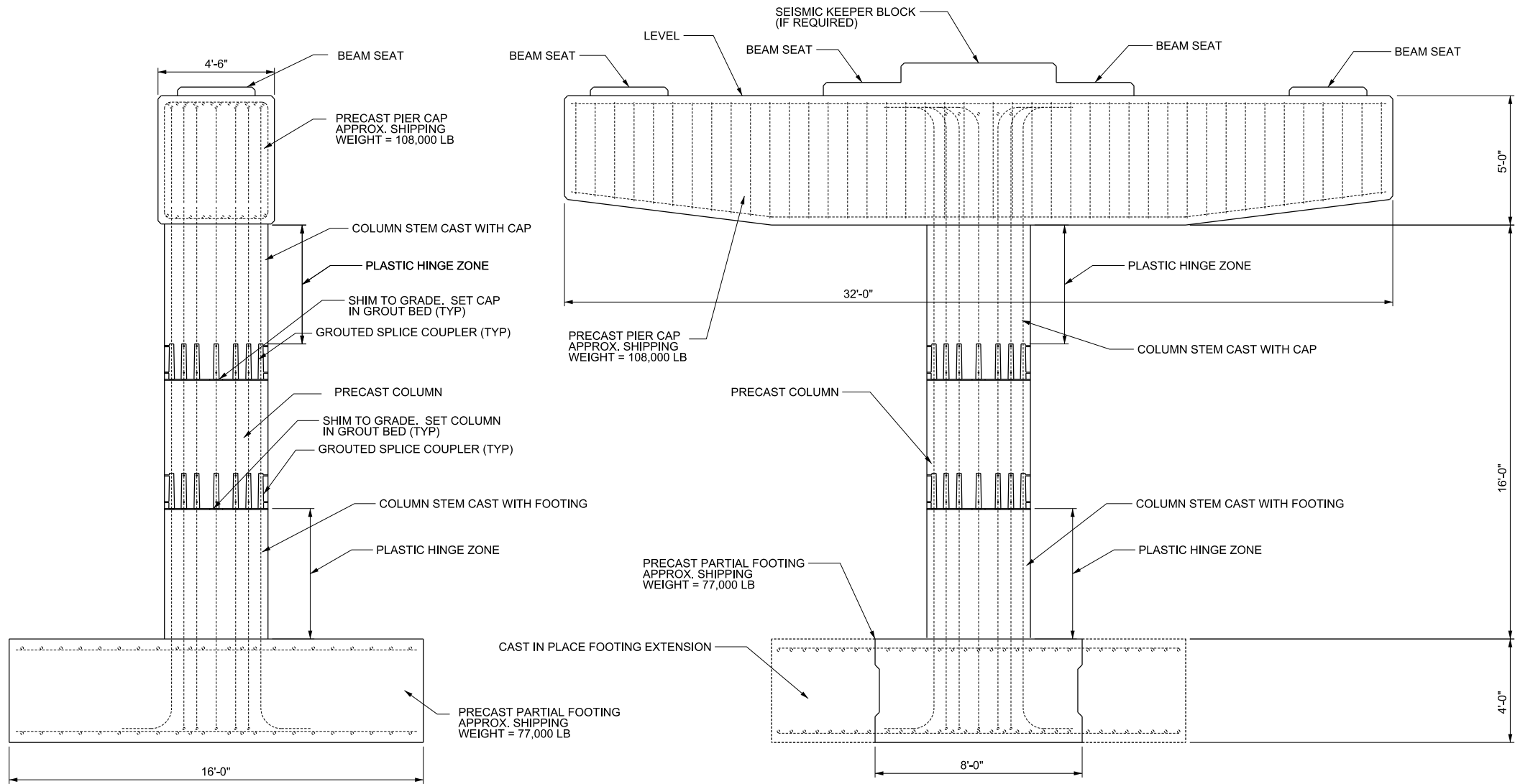
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STANDARD DRAWINGS FOR ROAD AND BRIDGE CONSTRUCTION  
SALT LAKE CITY, UTAH

## HAMMER HEAD PIER FOR LOW SEISMIC ZONES

STD. DWG. NO.

P-5

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SIDE VIEW - PREFABRICATED HAMMERHEAD PIER

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DETAILS FOR HIGH SEISMIC ZONES

ELEVATION - PREFABRICATED HAMMERHEAD PIER

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DETAILS FOR HIGH SEISMIC ZONES

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SALT LAKE CITY, UTAH

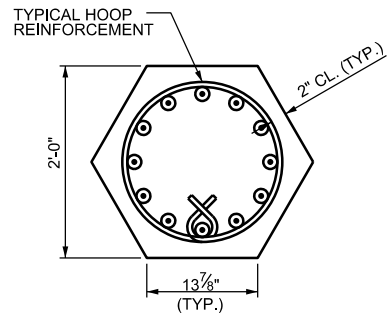
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APPROVED  
DEPUTY DIRECTOR

STANDARD PRECAST PIERS  
HAMMER HEAD PIER  
FOR HIGH SEISMIC ZONES

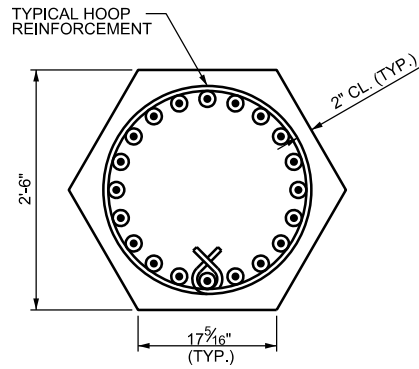
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P-6

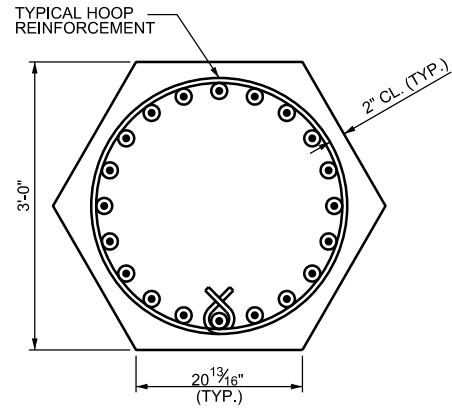
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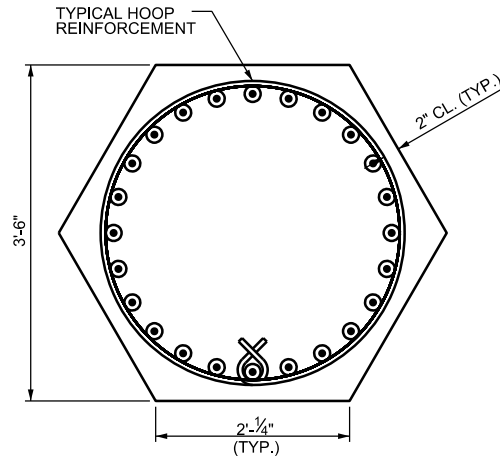
TYP. 2'-0" HEXAGONAL  
COLUMN SECTION



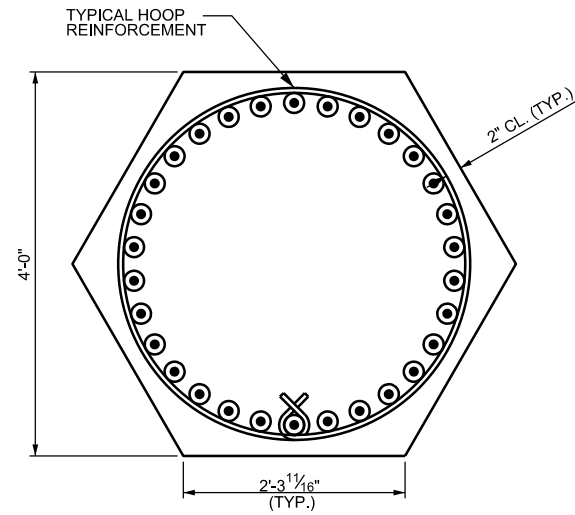
TYP. 2'-6" HEXAGONAL  
COLUMN SECTION



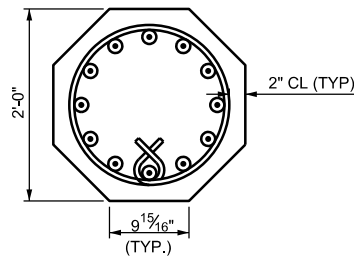
TYP. 3'-0" HEXAGONAL  
COLUMN SECTION



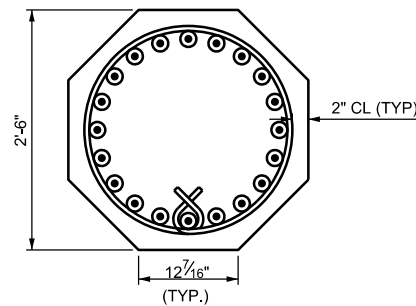
TYP. 3'-6" HEXAGONAL  
COLUMN SECTION



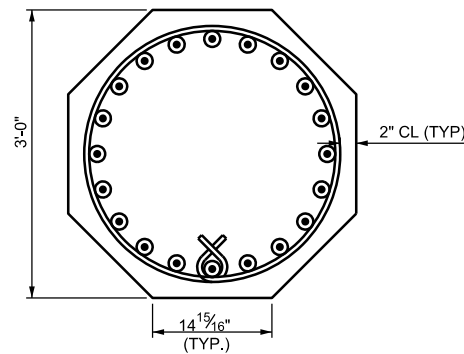
TYP. 4'-0" HEXAGONAL  
COLUMN SECTION



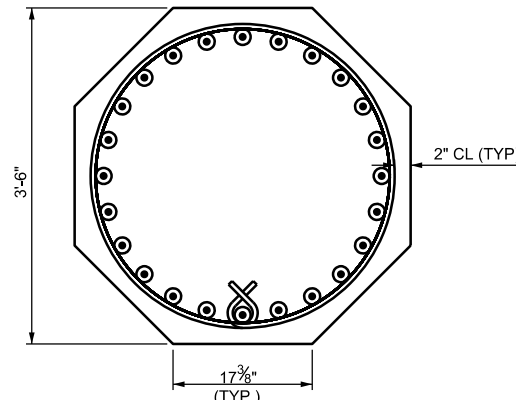
TYP. 2'-0" OCTAGONAL  
COLUMN SECTION



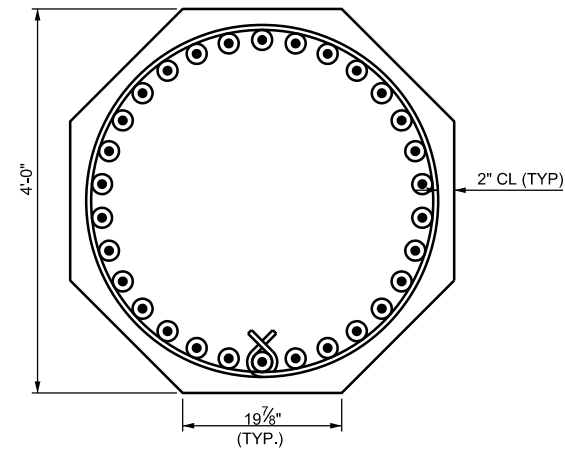
(TYP.) 2'-6" OCTAGONAL  
COLUMN SECTION



(TYP.) 3'-0" OCTAGONAL  
COLUMN SECTION



(TYP.) 3'-6" OCTAGONAL  
COLUMN SECTION



(TYP.) 4'-0" OCTAGONAL  
COLUMN SECTION

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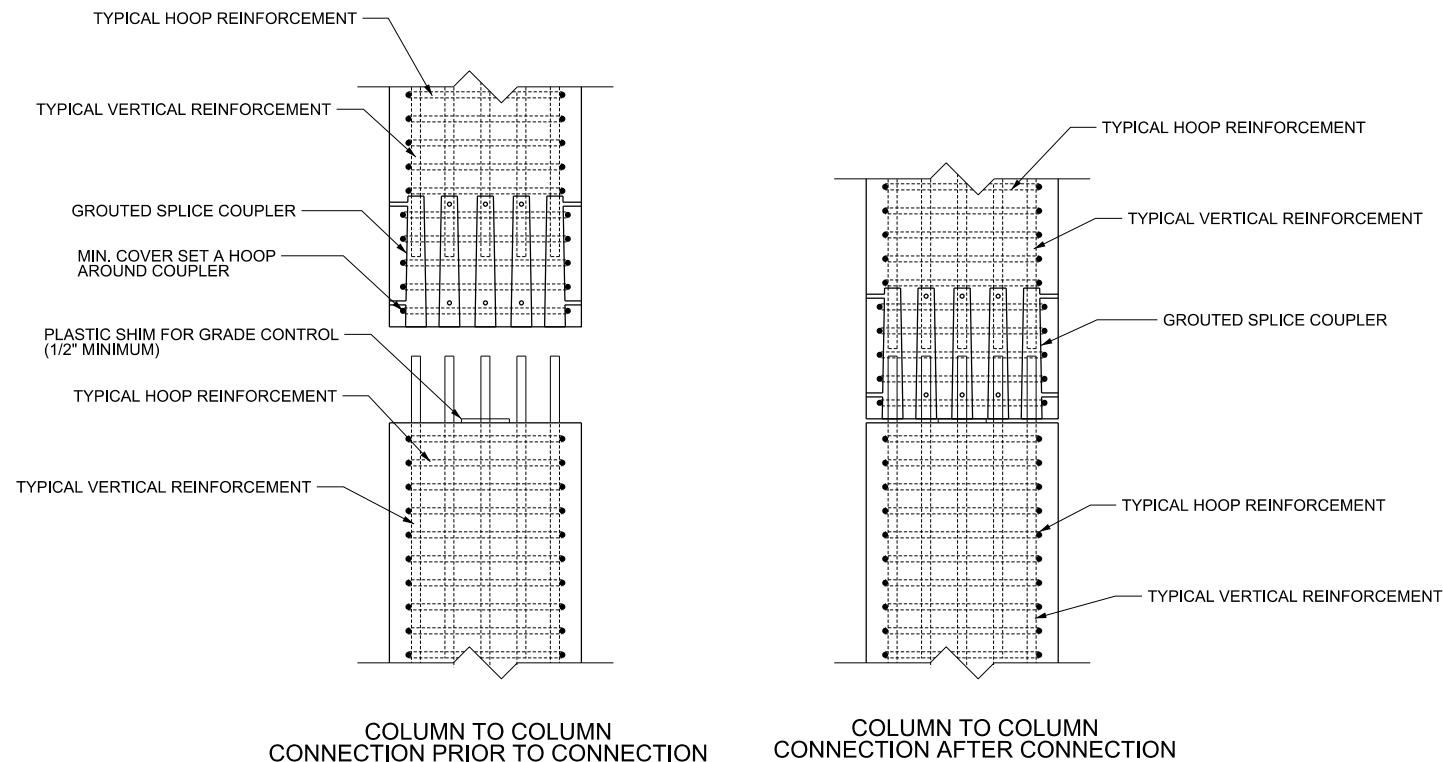
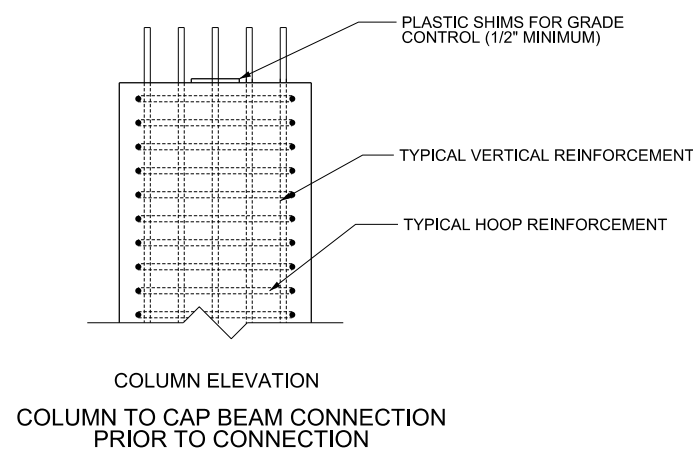
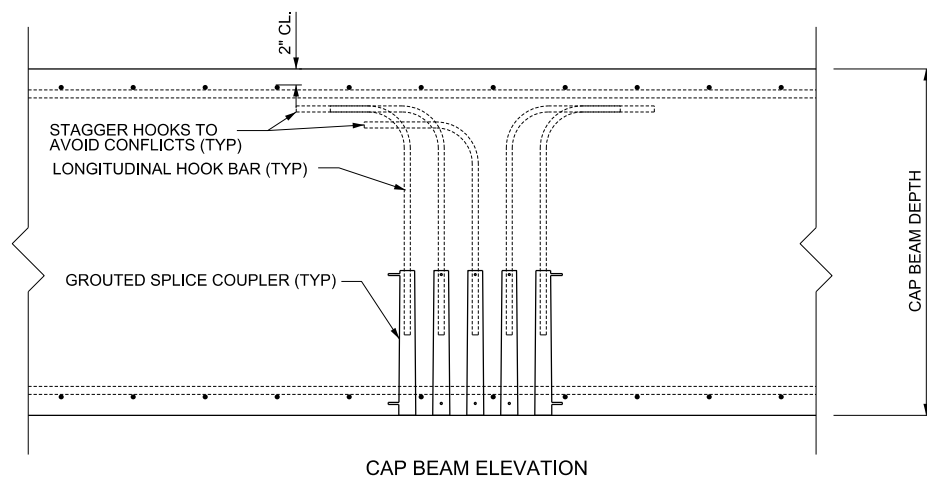
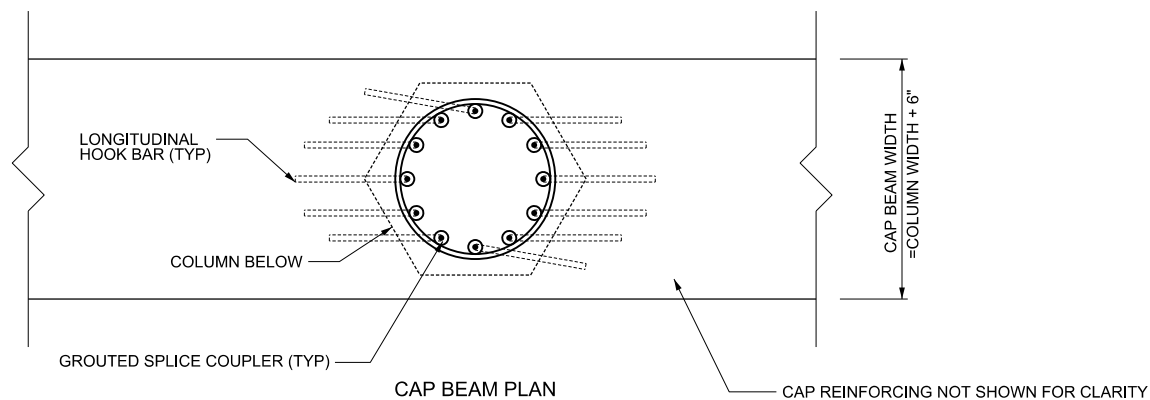
DEPUTY DIRECTOR

STANDARD PRECAST COLUMNS  
TYPICAL COLUMN SECTIONS

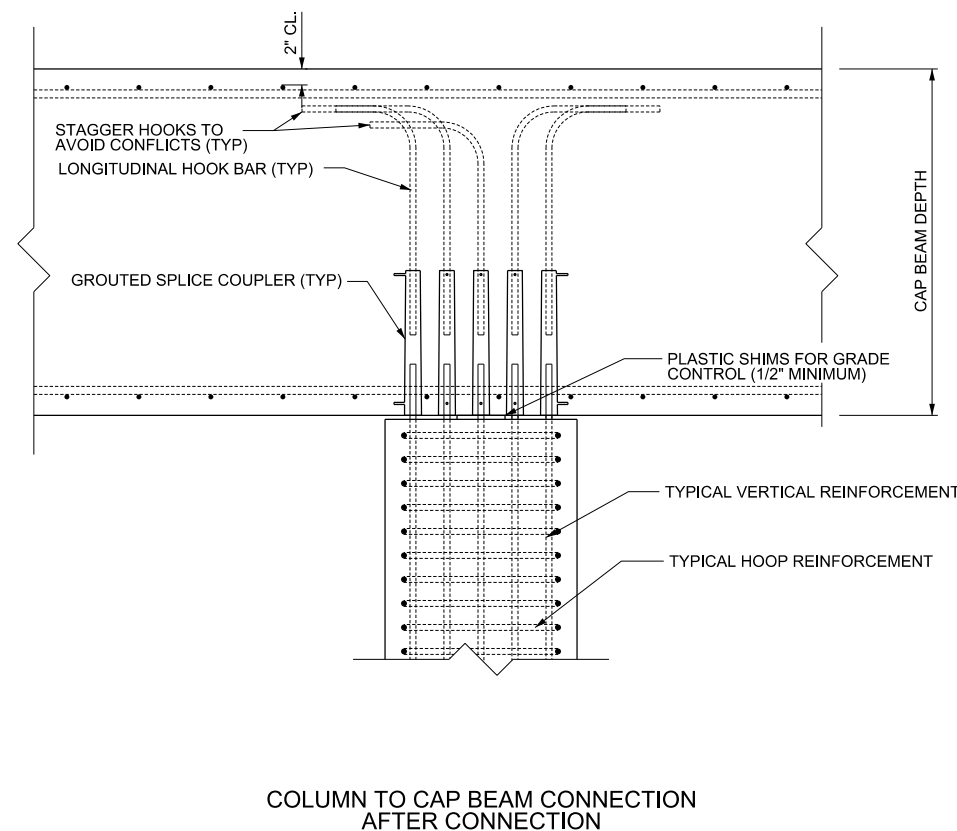
STD. DWG. NO.

P-7

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NOTE: COLUMN TO COLUMN SPLICE SHOWN, COLUMN TO FOOTING DETAILS SIMILAR



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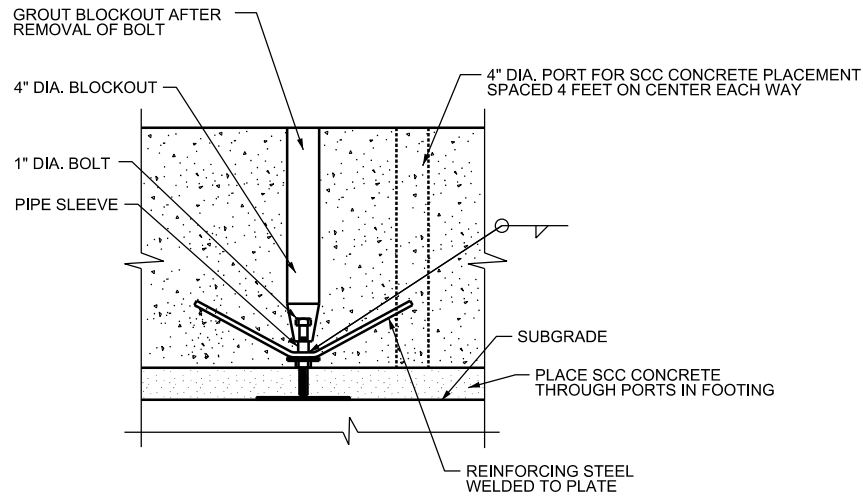
STANDARD PRECAST PIERS  
TYPICAL DETAILS

STD. DWG. NO.

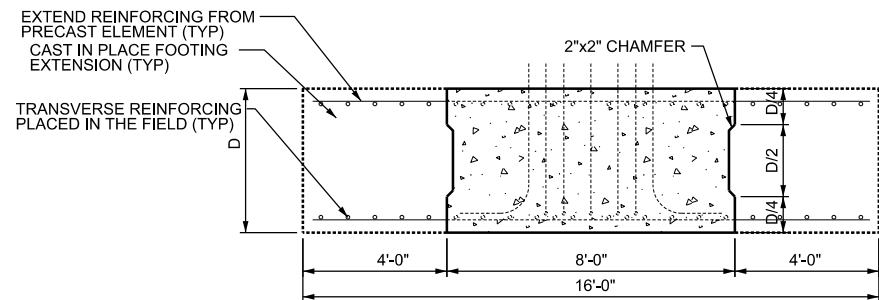
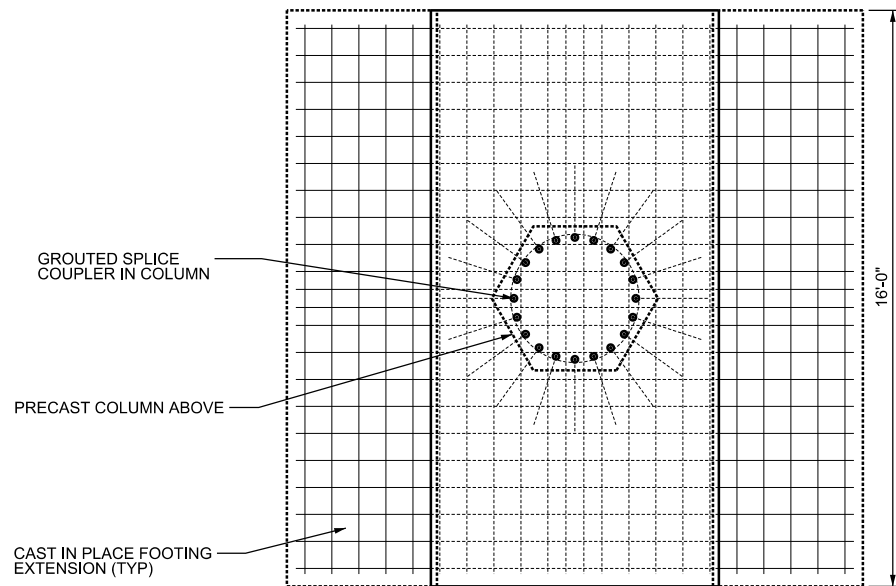
P-8

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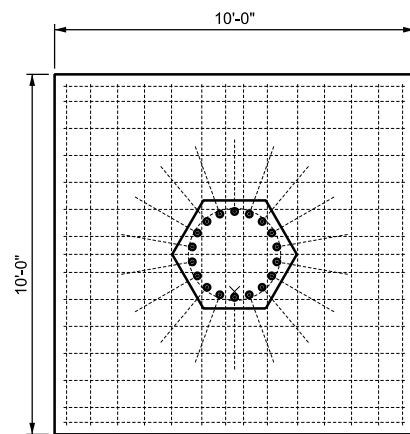


NOTES: REMOVE BOLT AFTER BASE GROUT HAS SET  
 ALTERNATE DEVICES MAY BE SUBSTITUTED BY THE CONTRACTOR  
 WITH THE APPROVAL FROM THE ENGINEER  
**SPREAD FOOTING INSTALLATION DETAIL**



APPROXIMATE SHIPPING WEIGHT = 76,800 LB.  
**PARTIAL PRECAST SPREAD FOOTING**

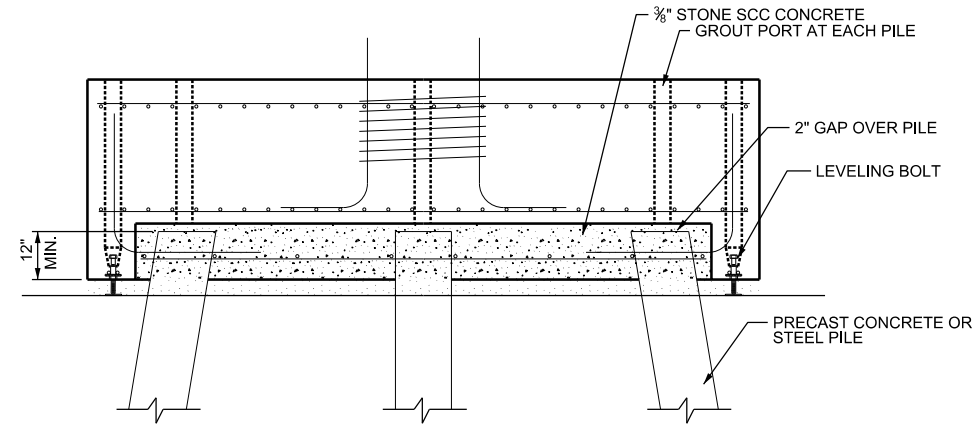
NOTE: DIMENSIONS SHOWN ARE NOT TYPICAL. DETAILS WILL VARY WITH EACH SUBSTRUCTURE UNIT



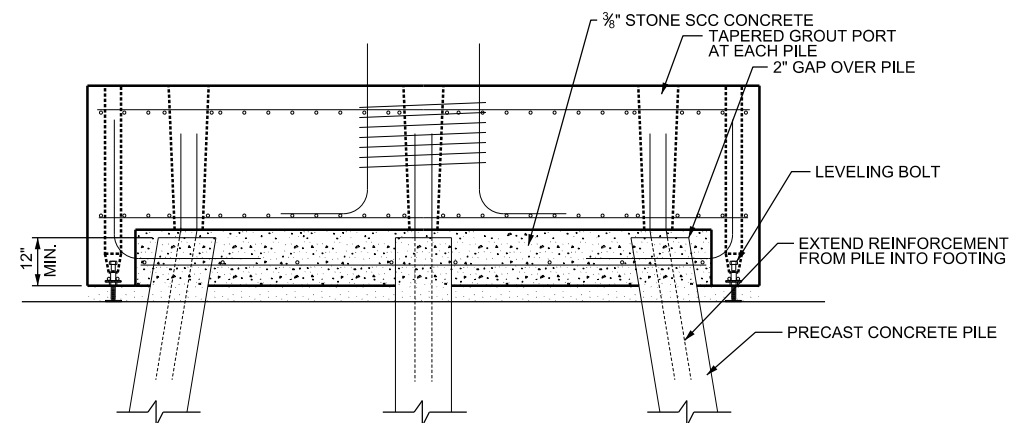
APPROXIMATE SHIPPING WEIGHT = 45,000 LB.

**PRECAST SPREAD FOOTING**

NOTE: DIMENSIONS SHOWN ARE NOT TYPICAL. DETAILS WILL VARY WITH EACH SUBSTRUCTURE UNIT



**PRECAST FOOTING ON PILES WITHOUT PILE UPLIFT**



**PRECAST FOOTING ON PILES WITH PILE UPLIFT**

NOTE: STEEL PILE DETAILS ARE SIMILAR. WELDABLE REINFORCING STEEL BARS CAN BE FIELD WELDED TO THE PILE WEB AFTER PILE CUT-OFF

REVISIONS

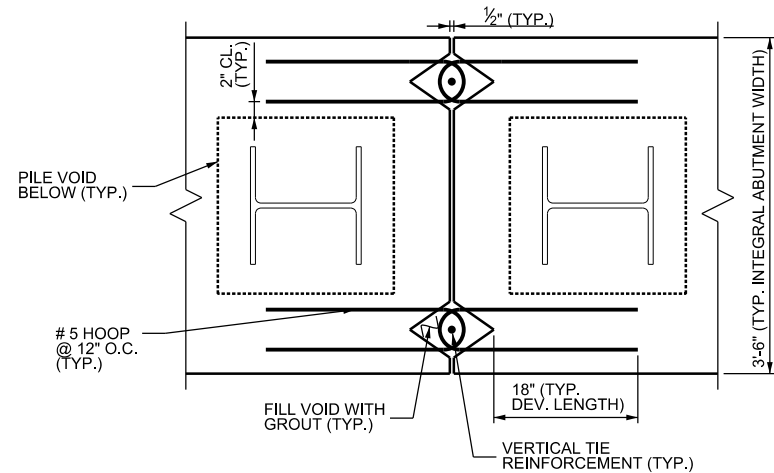
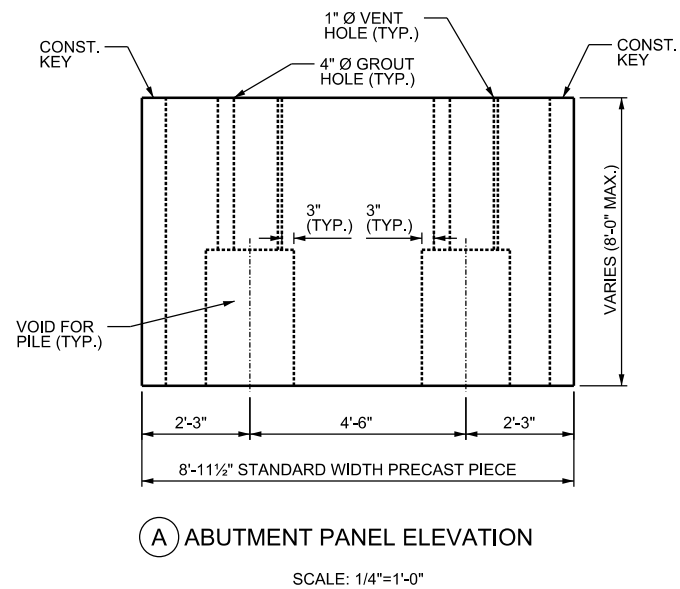
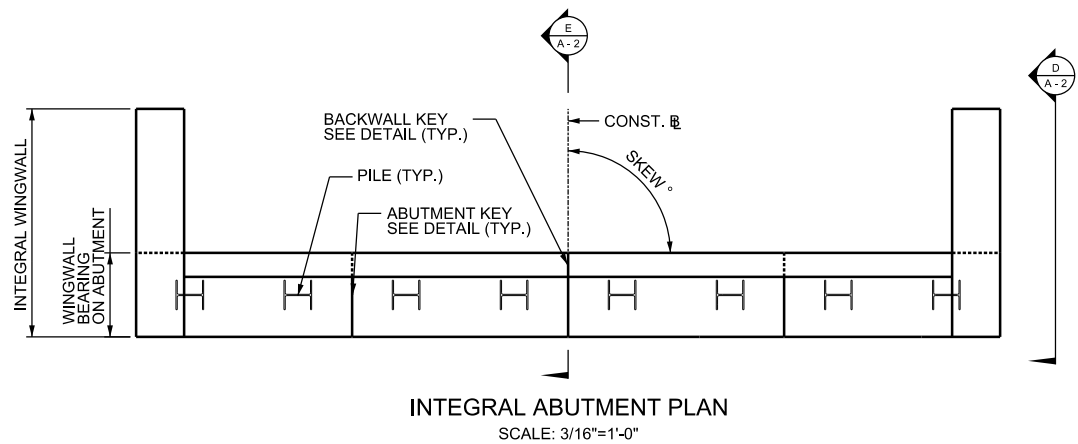
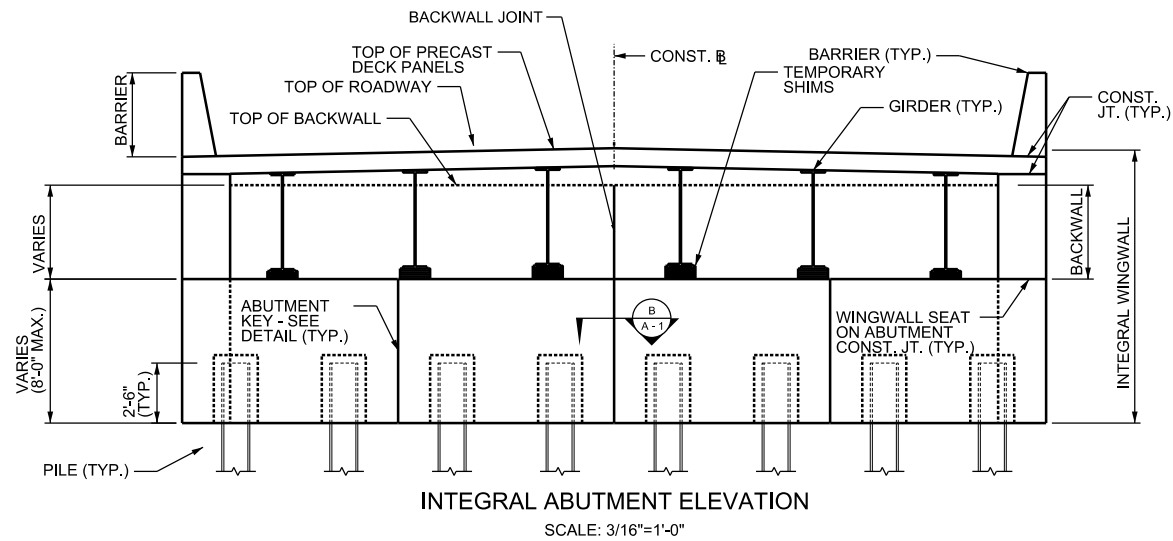
**UTAH DEPARTMENT OF TRANSPORTATION**  
 STANDARD DRAWINGS FOR ROAD AND BRIDGE CONSTRUCTION  
 SALT LAKE CITY, UTAH

**STANDARD PRECAST FOOTINGS**  
**TYPICAL DETAILS**

STD. DWG. NO.

**F-1**

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SALT LAKE CITY, UTAH

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APPROVED

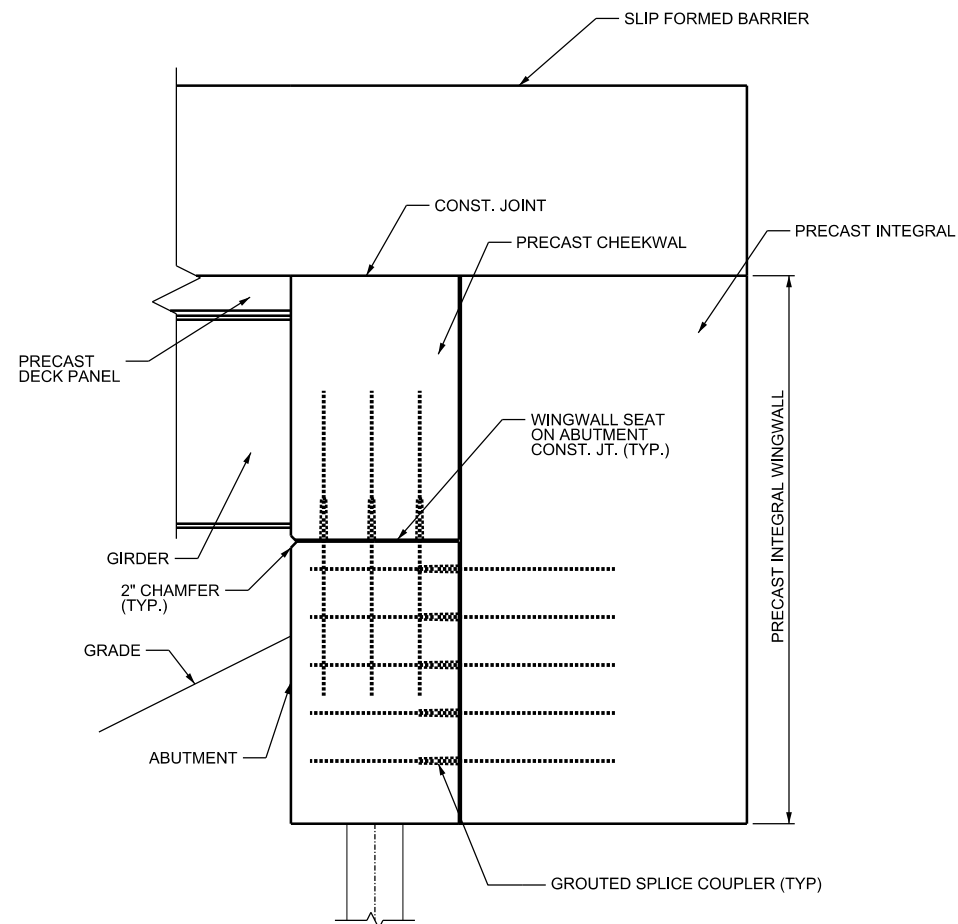
DEPUTY DIRECTOR

PRECAST STANDARD INTEGRAL  
ABUTMENT TYPICAL DETAILS

STD. DWG. NO.

A - 1

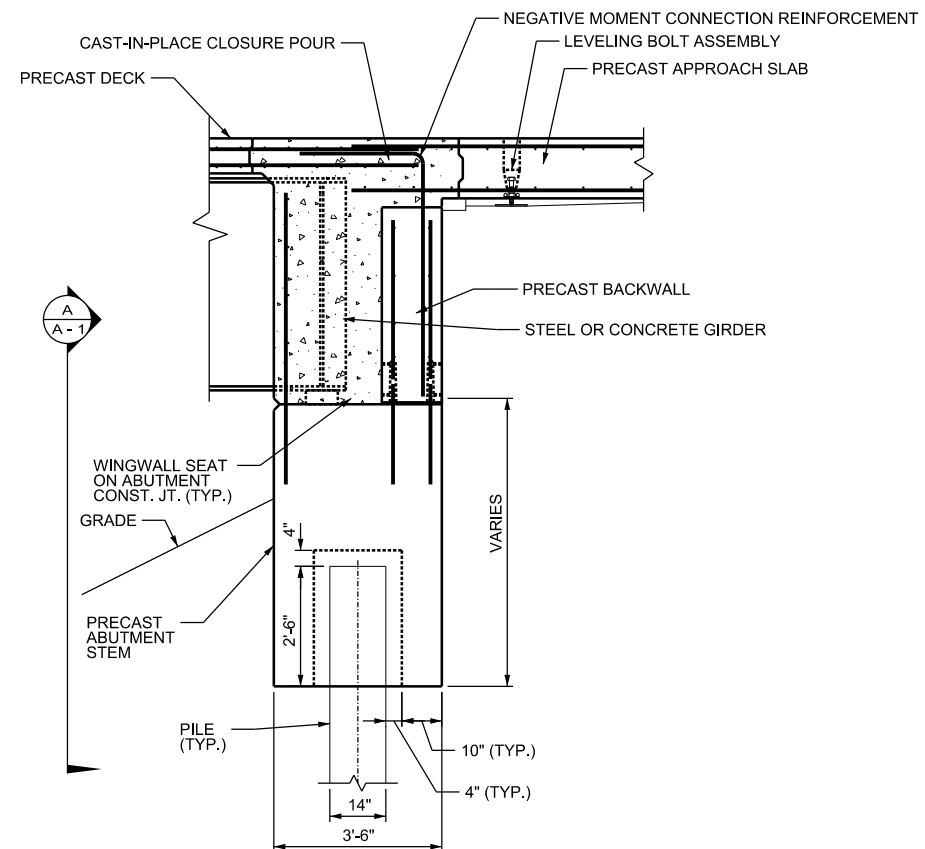
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**(D) ABUTMENT ELEVATION**

SCALE: 1/4"=1'-0"

NOTE: ABUTMENT REINFORCEMENT NOT SHOWN FOR CLARITY



**(E) ABUTMENT SECTION**

SCALE: 1/4"=1'-0"

NOTE: ABUTMENT REINFORCEMENT NOT SHOWN FOR CLARITY

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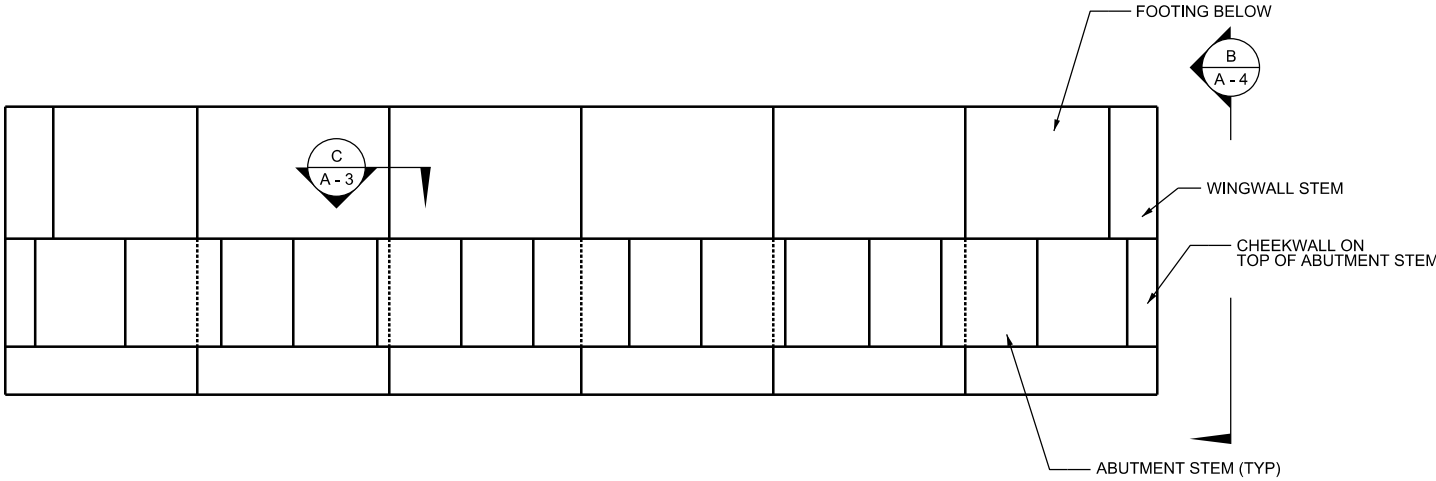
DEPUTY DIRECTOR

PRECAST STANDARD INTEGRAL  
ABUTMENT TYPICAL DETAILS

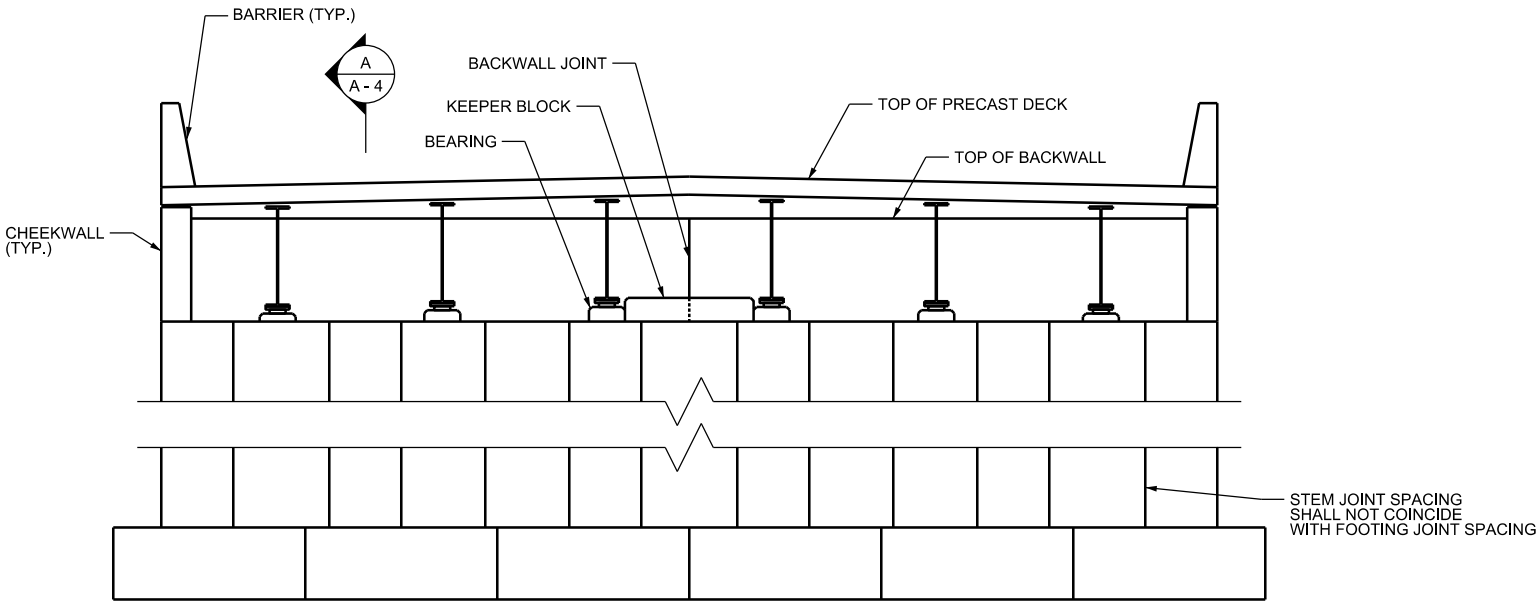
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A - 2

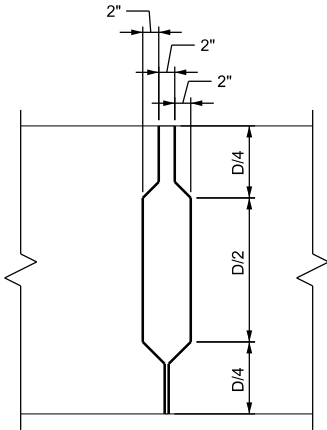
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ABUTMENT PLAN  
SCALE: 1/8"=1'-0"



ABUTMENT ELEVATION  
SCALE: 1/8"=1'-0"



FOOTING KEY  
SCALE: 1/2"=1'-0"

NOTE: FOOTING REINFORCEMENT NOT SHOWN FOR CLARITY

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APPROVED

DEPUTY DIRECTOR

DATE

DATE

NO.

DATE

APPR.

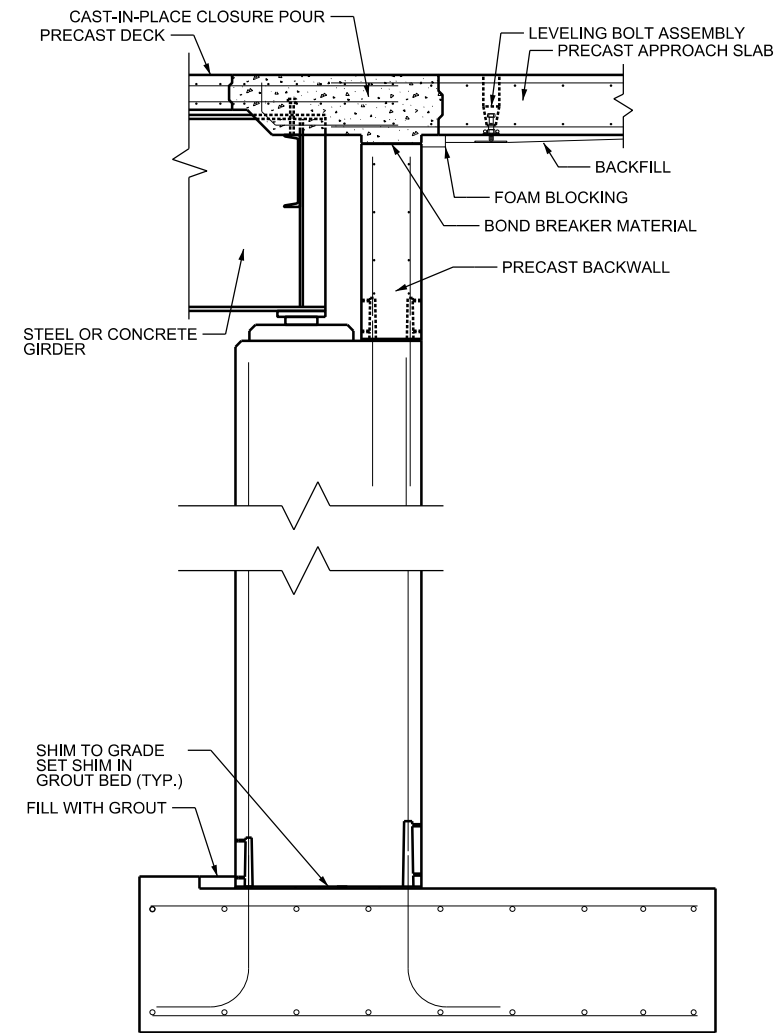
REMARKS

STANDARD PRECAST CANTILEVER  
ABUTMENT TYPICAL DETAILS

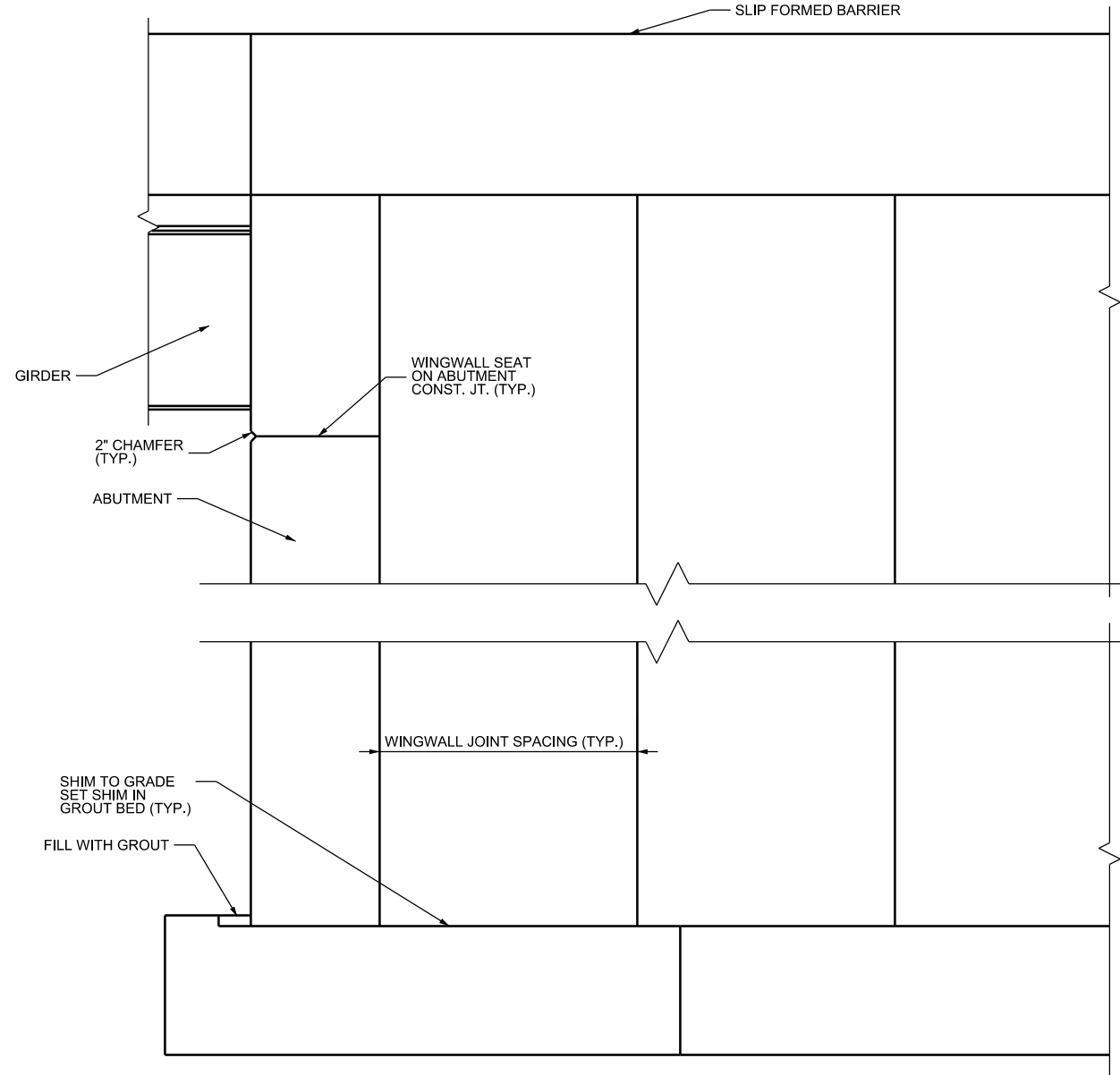
STD. DWG. NO.

A - 3

DRAFT - NOT RELEASED FOR CONSTRUCTION



**(A) ABUTMENT SECTION**  
SCALE: 1/4"=1'-0"



**(B) ABUTMENT SIDE ELEVATION**  
SCALE: 1/4"=1'-0"

REVISIONS

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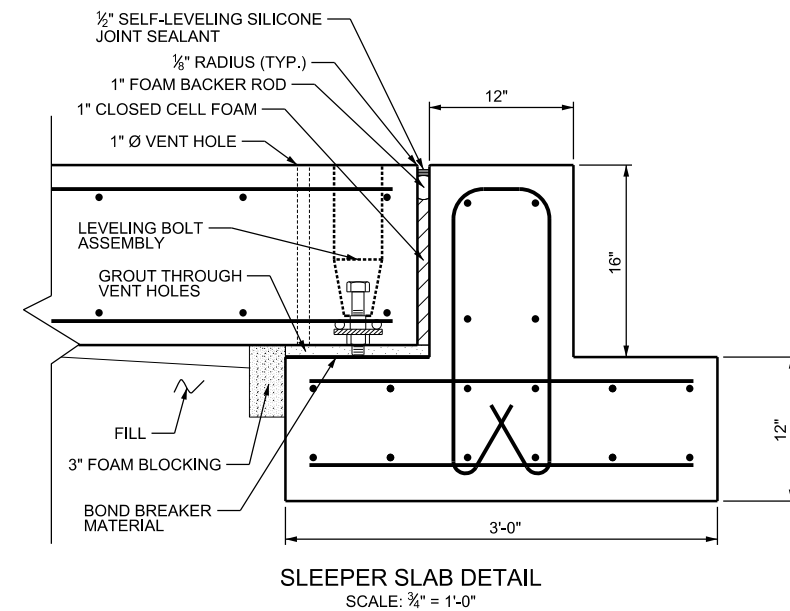
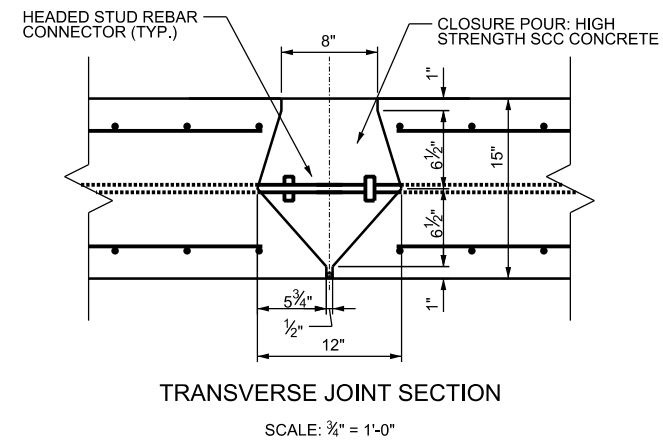
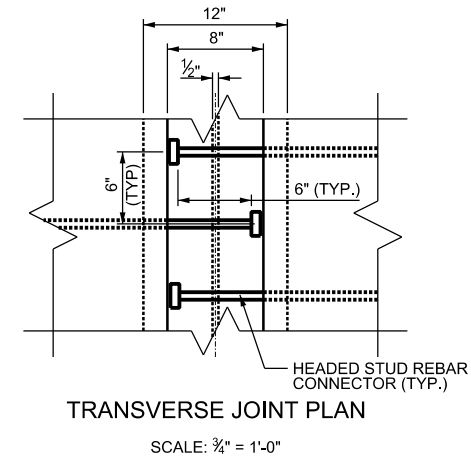
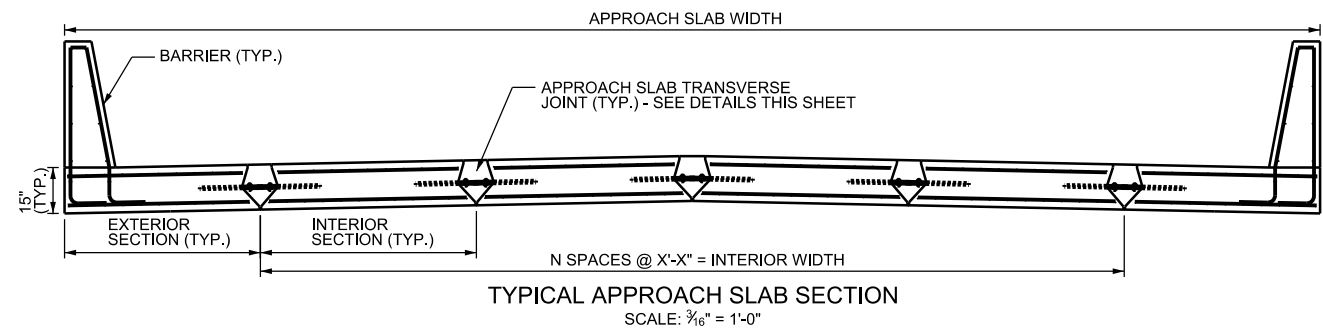
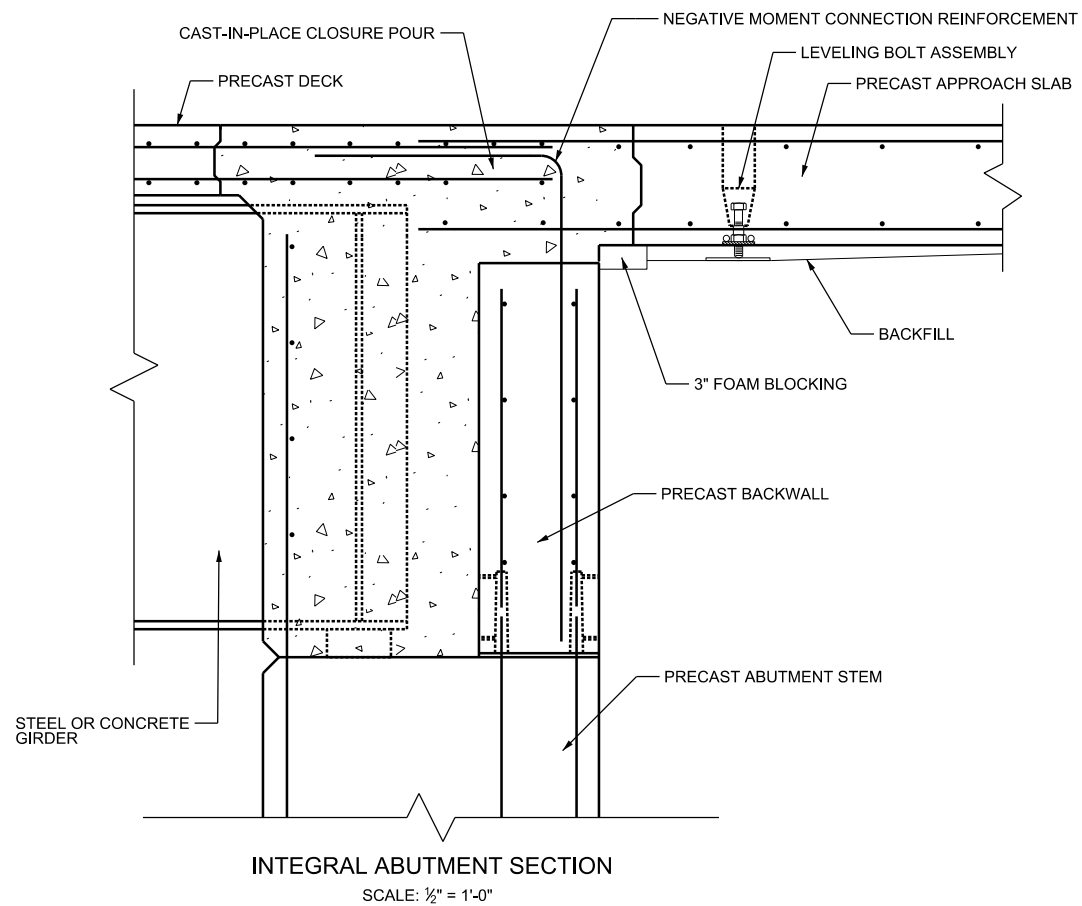
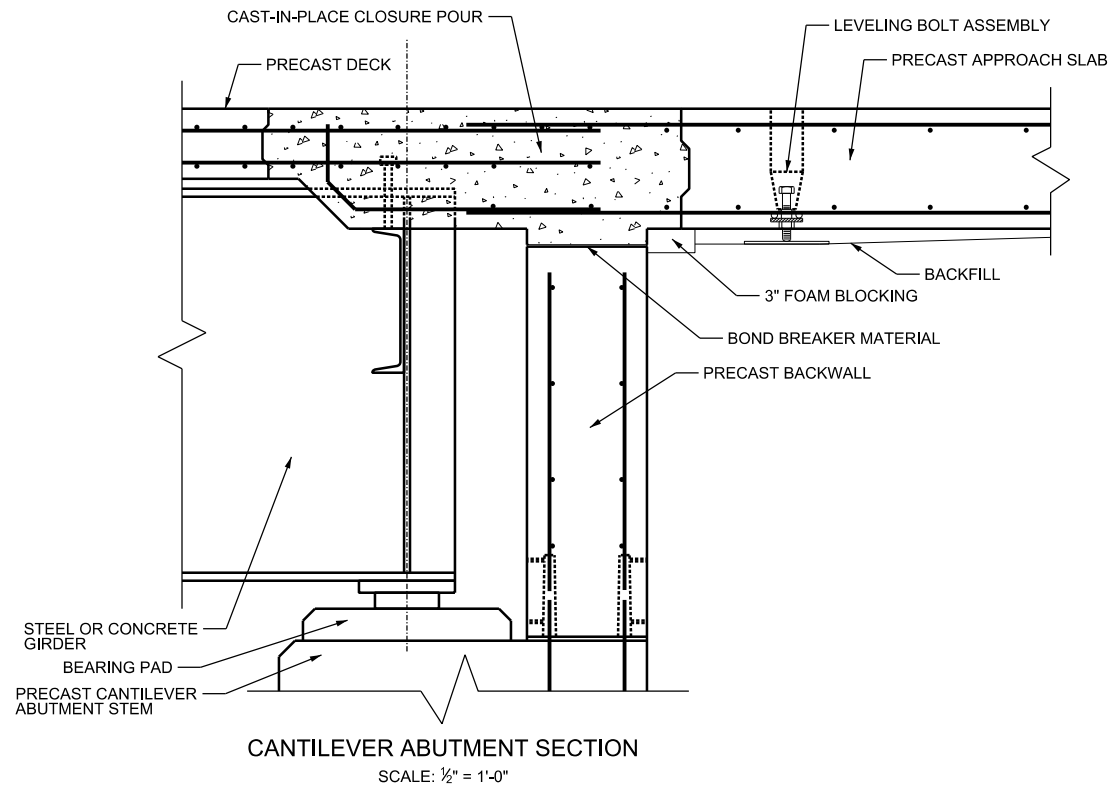
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STANDARD PRECAST CANTILEVER  
ABUTMENT TYPICAL DETAILS

STD. DWG. NO.

**A - 4**

DRAFT - NOT RELEASED FOR CONSTRUCTION



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APPROVED

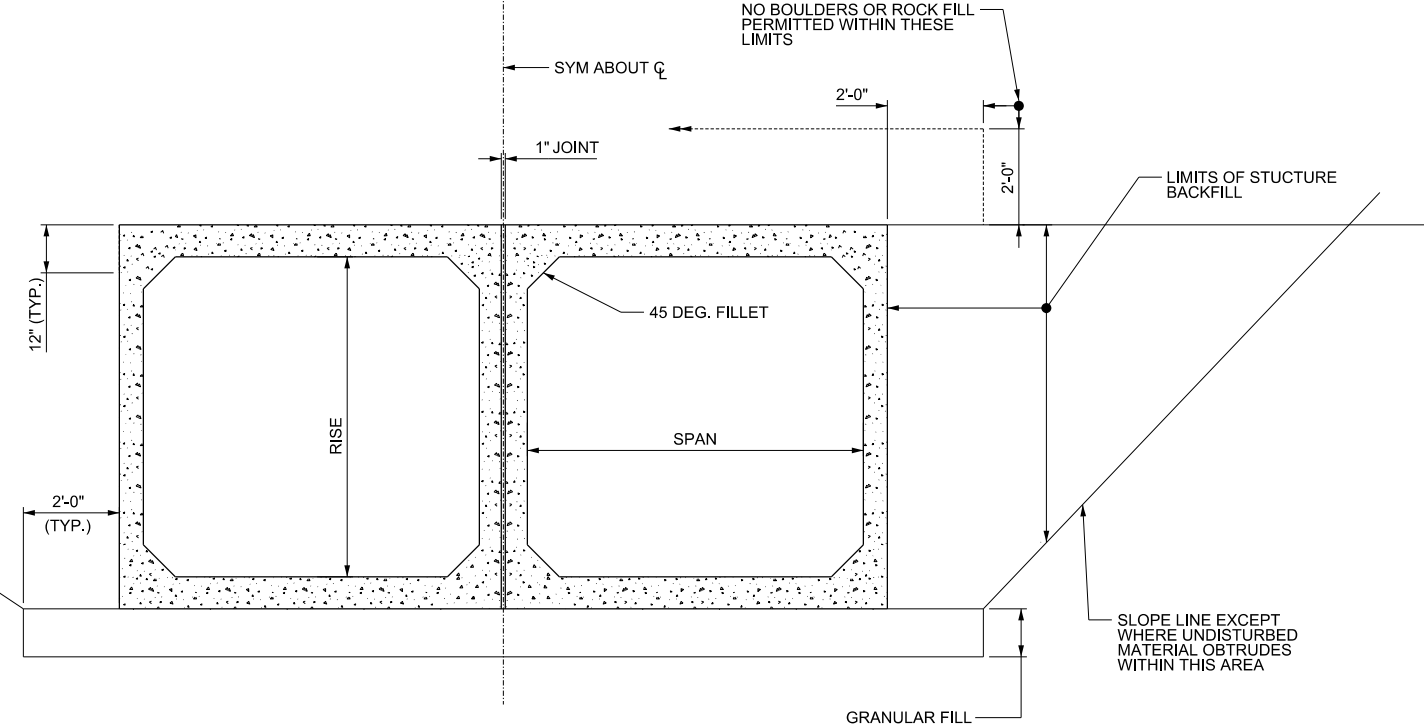
DEPUTY DIRECTOR

PRECAST APPROACH SLAB  
TYPICAL DETAILS

STD. DWG. NO.  
A - 5

DRAFT - NOT RELEASED FOR CONSTRUCTION

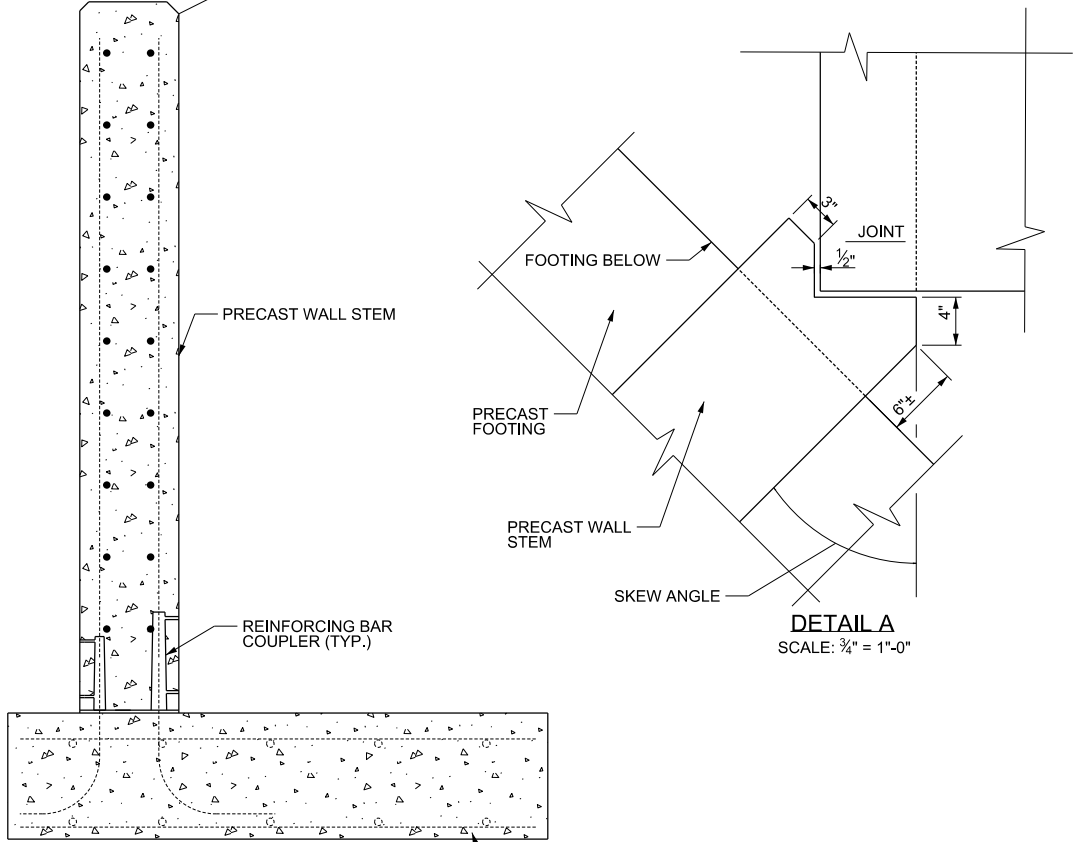
AFTER PLACING CAST-IN-PLACE NOSE SECTIONS, THIS JOINT SHALL BE FILLED BY "FLOATING" SAND INTO IT. USE ONLY ENOUGH WATER SO THAT AFTER IT HAS DRAINED AWAY, THE SAND WILL TIGHTLY FILL THE ENTIRE JOINT



PRECAST BOX CULVERT TYPICAL SECTION

SCALE: 1/4" = 1'-0"

NOTE: TWIN CELL CONFIGURATION SHOWN  
SINGLE CELL CONFIGURATIONS SIMILAR

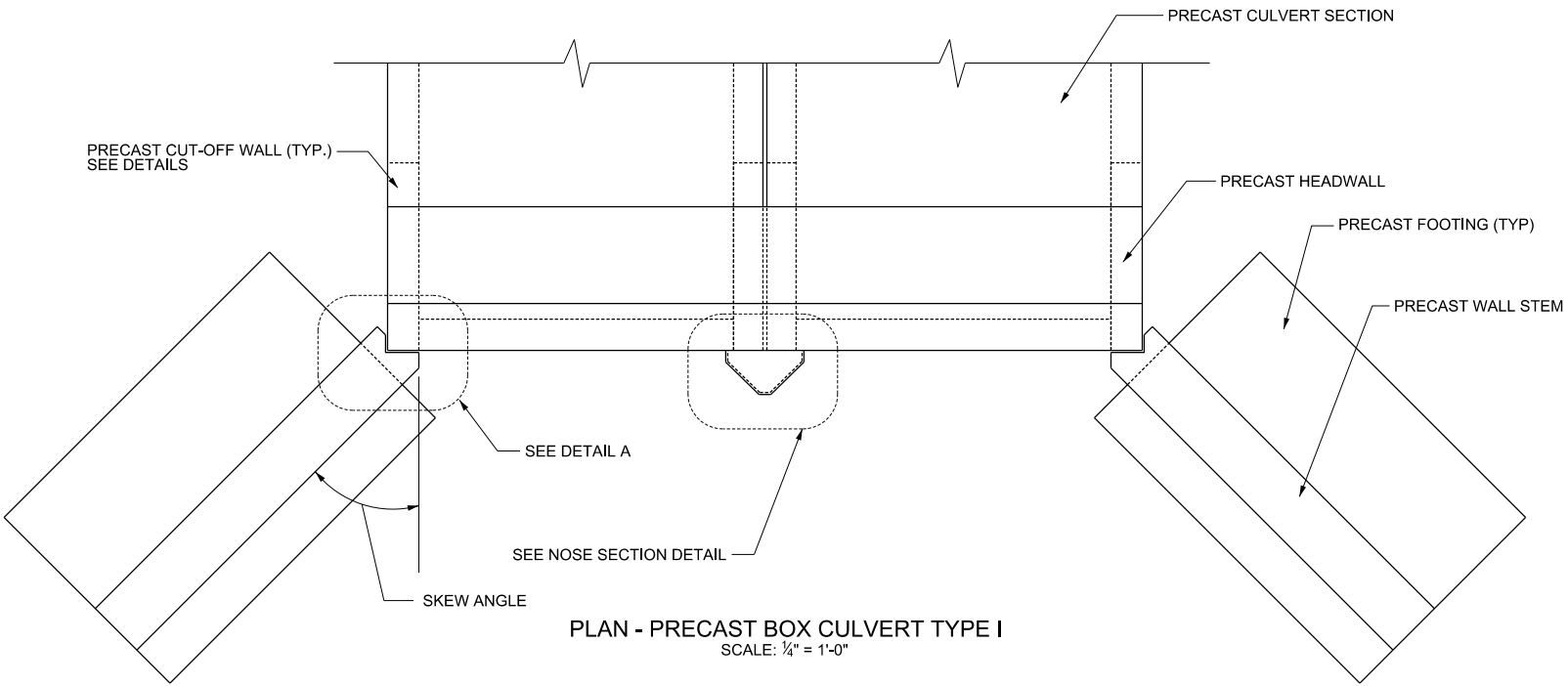


PRECAST WINGWALL SECTION

SCALE: 3/8" = 1'-0"

PRECAST FOOTING  
SEE DRAWING XX FOR DETAILS

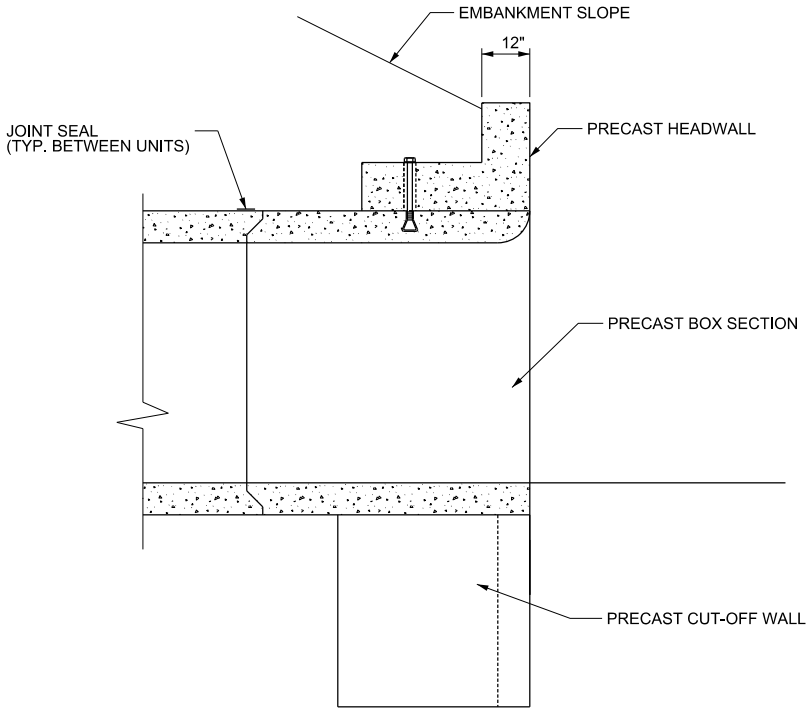
DETAIL A  
SCALE: 3/4" = 1'-0"



PLAN - PRECAST BOX CULVERT TYPE I

SCALE: 1/4" = 1'-0"

NOTE: TWIN CELL CULVERT SHOWN.  
SINGLE CELL SIMILAR.



LONGITUDINAL SECTION  
PRECAST BOX CULVERT TYPE I

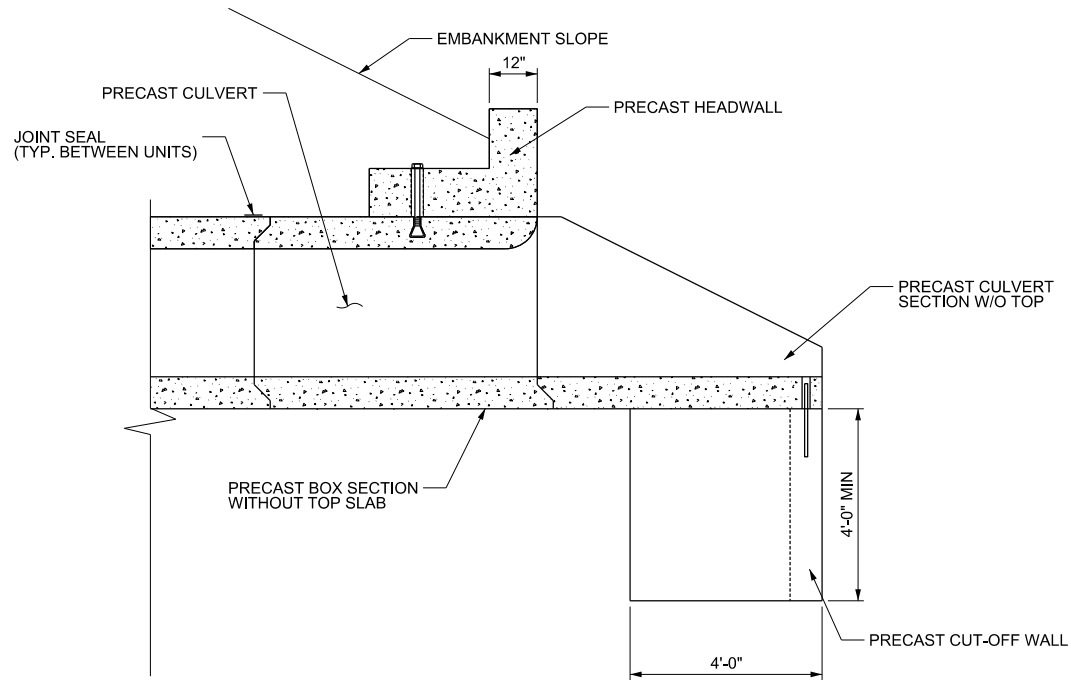
SCALE: 1/4" = 1'-0"

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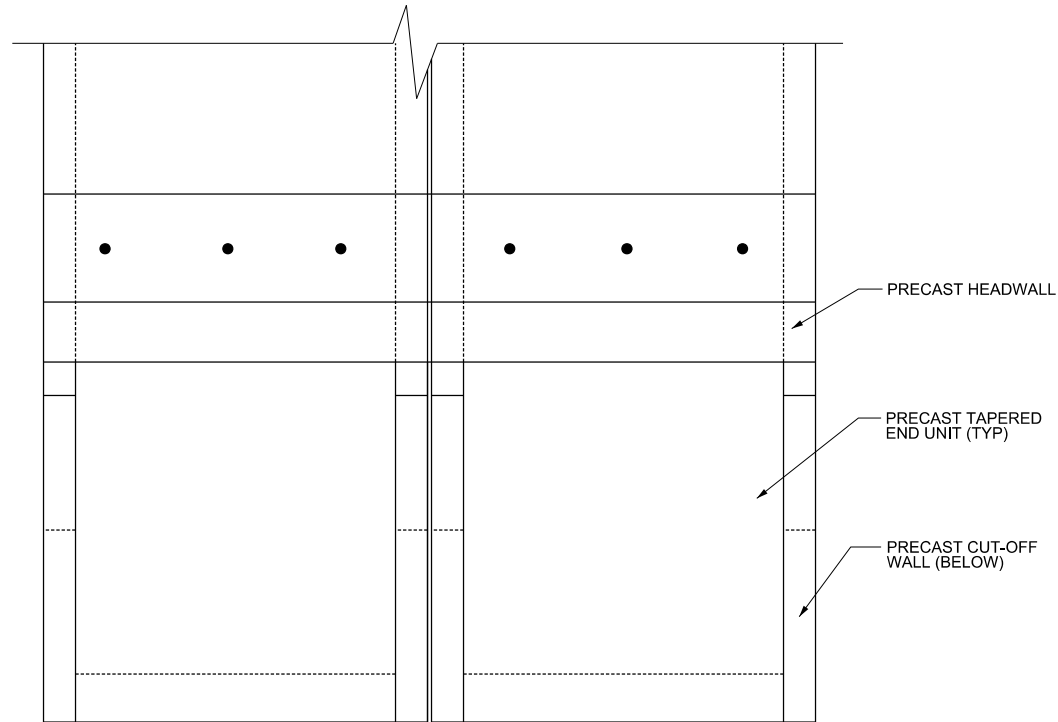
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SALT LAKE CITY, UTAH			
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APPROVED		DATE	
DEPUTY DIRECTOR		DATE	

STANDARD PRECAST BOX CULVERT TYPE I - FLARED WINGWALLS	
STD. DWG. NO. BC-1	



LONGITUDINAL SECTION -  
PRECAST BOX CULVERT TYPE II

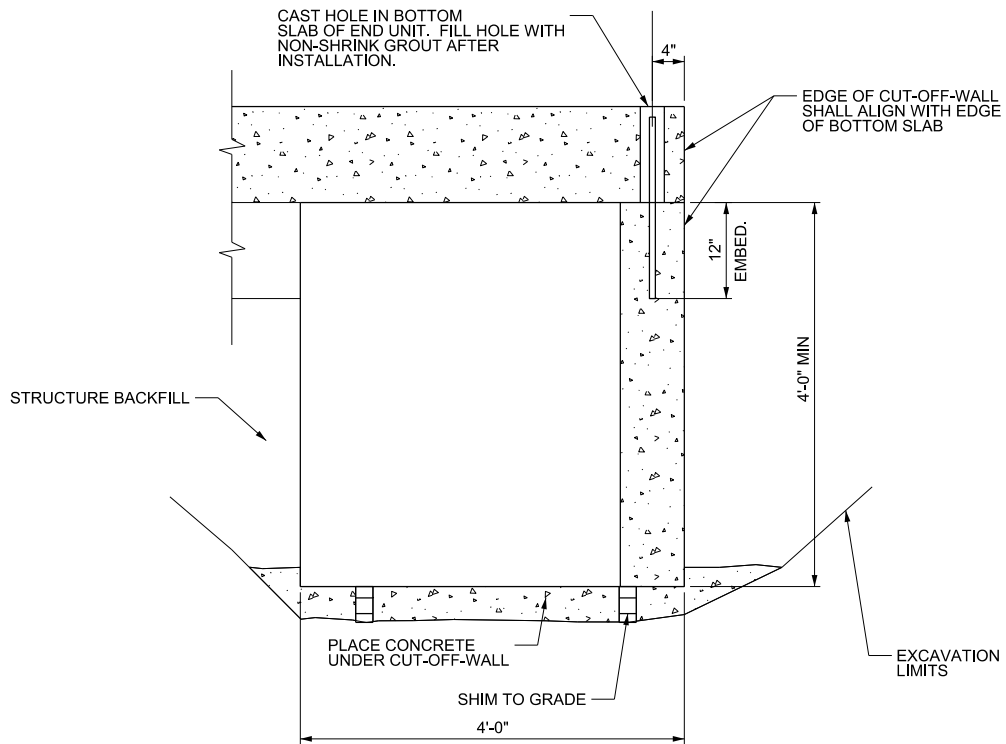
SCALE: 1/4" = 1'-0"



PLAN - PRECAST CULVERT TYPE II

SCALE: 1/4" = 1'-0"

NOTE: DOUBLE CELL CULVERT SHOWN SINGLE CELL SIMILAR



PRECAST CUT-OFF WALL DETAIL

SCALE: 1/2" = 1'-0"

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STANDARD PRECAST  
BOX CULVERT  
TYPE II-PARALLEL WINGWALLS

STD. DWG. NO.

BC-2

RECOMMENDED FOR APPROVAL

CHAIRMAN STANDARDS COMMITTEE  
APPROVED

DEPUTY DIRECTOR

DATE

DATE

DATE

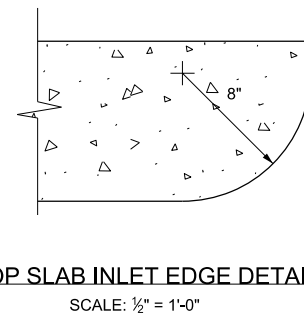
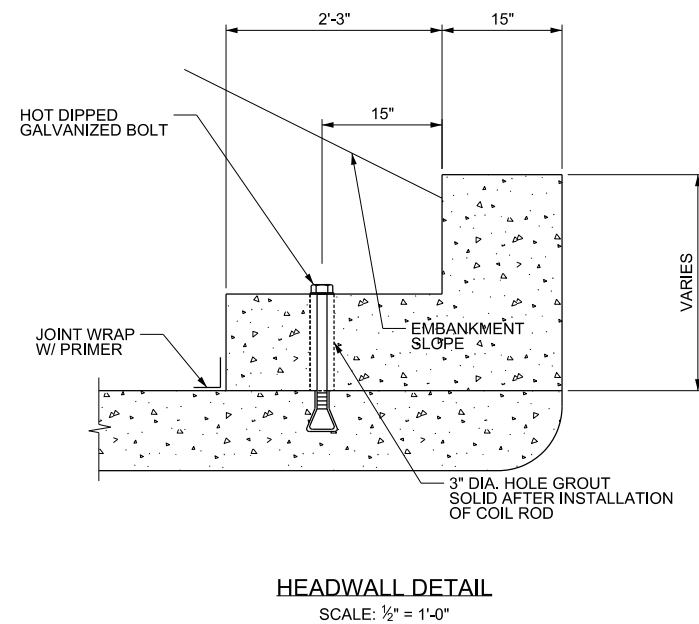
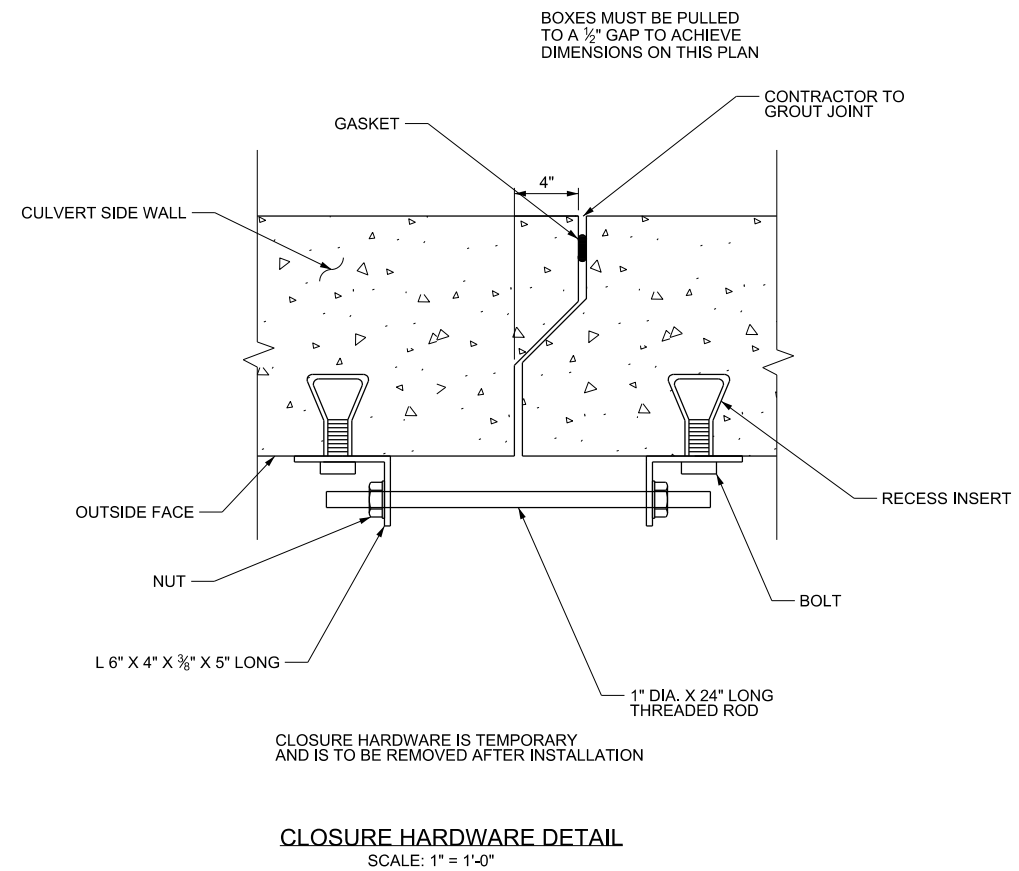
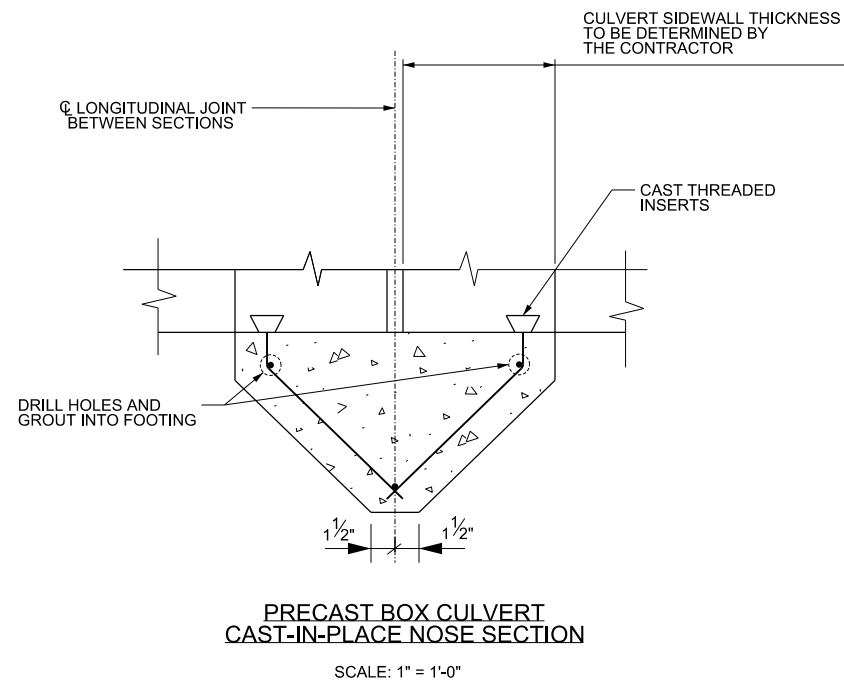
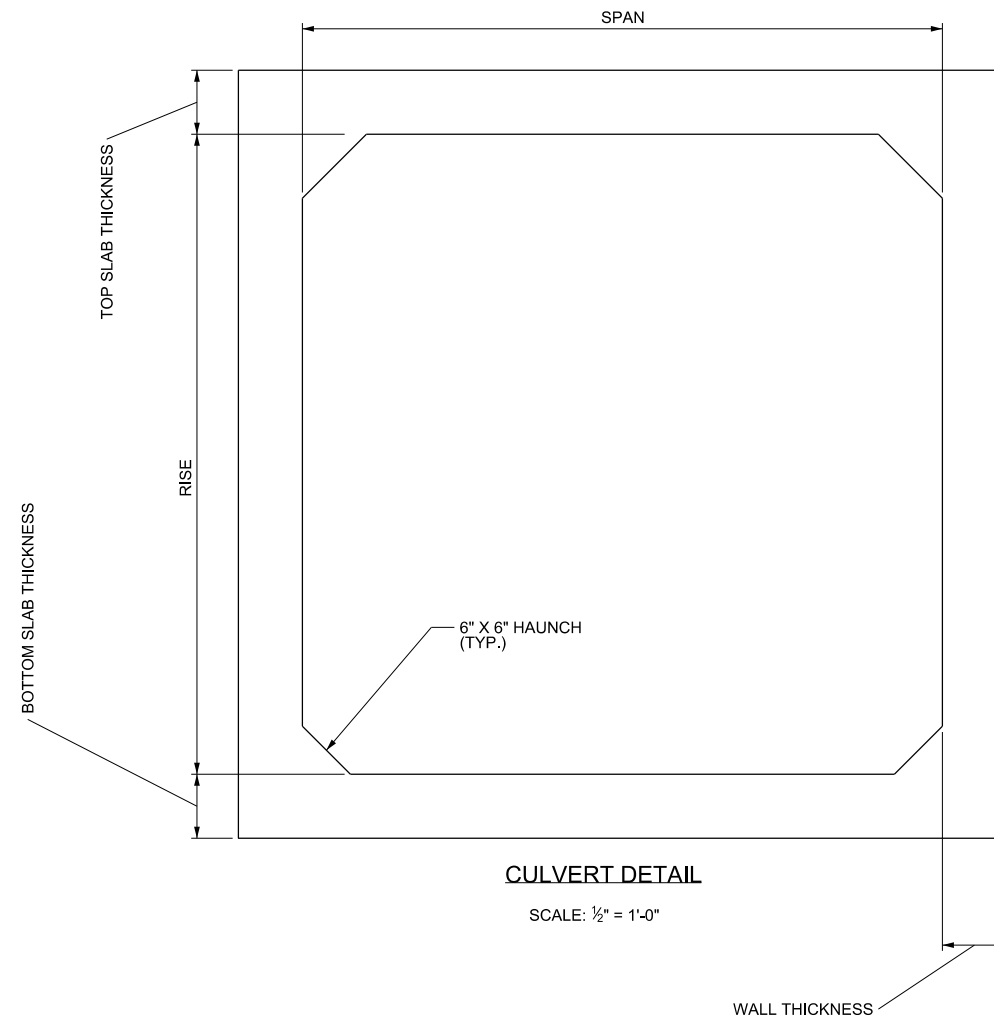
APPR.

NO.

REMARKS

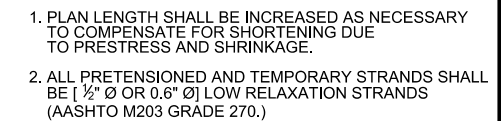
DRAFT - NOT RELEASED FOR CONSTRUCTION





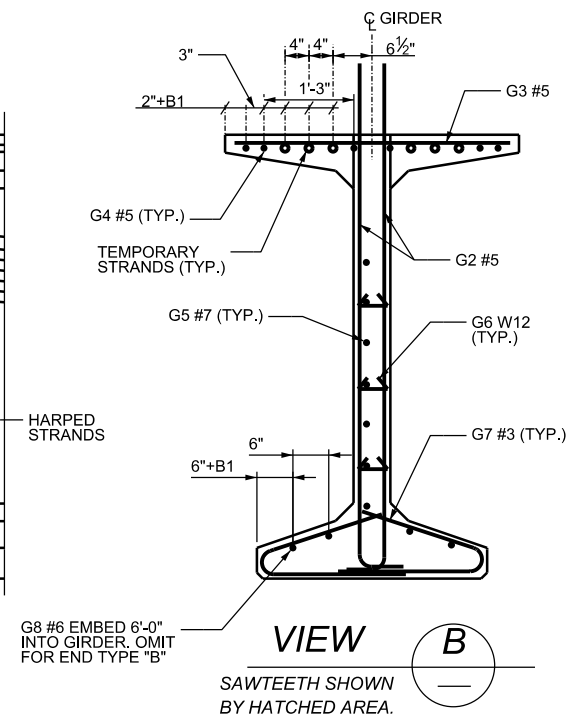
NOTE: FOR TOP SLAB LESS THAN 8", USE 6" RADIUS

[illegible]



\*\* MAXIMUM SLOPE FOR STRANDS  
6 : 1 FOR EACH 1/2" Ø STRAND OR  
8 : 1 FOR EACH 0.6" Ø STRAND

\* OMIT HOLES AND PLACE INSERTS ON THE INTERIOR FACE OF EXTERIOR GIRDERS. PLACE HOLES AND INSERTS PARALLEL TO SKEW. INSERTS SHALL BE 1"Ø BURKE HI-TENSILE, LANCASTER MALLEABLE, DAYTON-SUPERIOR F-62 FLARED THIN SLAB (1" x 4D") FERRULE INSERT OR APPROVED EQUAL. (TYP.)



ẽ FIELD BENDING REQUIRED TO OBTAIN 1½" CONCRETE COVER AT PAVEMENT SEAT.

					REVISIONS
	NO.	DATE	APPR.		REV.

**UTAH DEPARTMENT OF TRANSPORTATION**  
STANDARD DRAWINGS FOR ROAD AND BRIDGE CONSTRUCTION  
SALT LAKE CITY, UTAH

RECOMMENDED FOR APPROVAL

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APPROVED

DEPUTY DIRECTOR

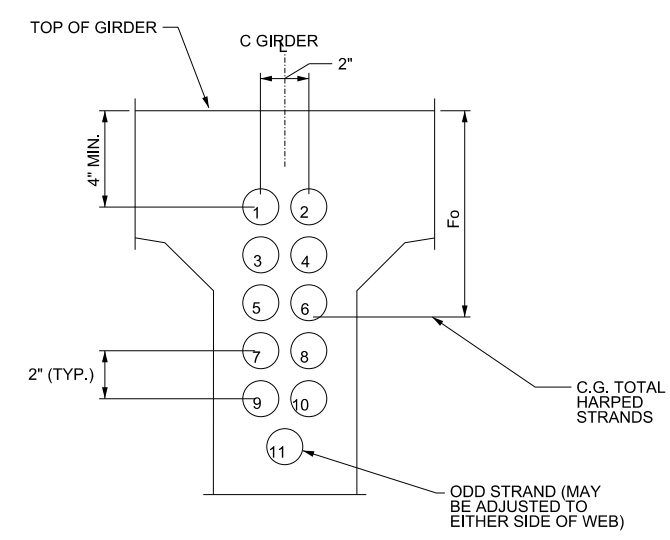
DATE \_\_\_\_\_

DATE \_\_\_\_\_

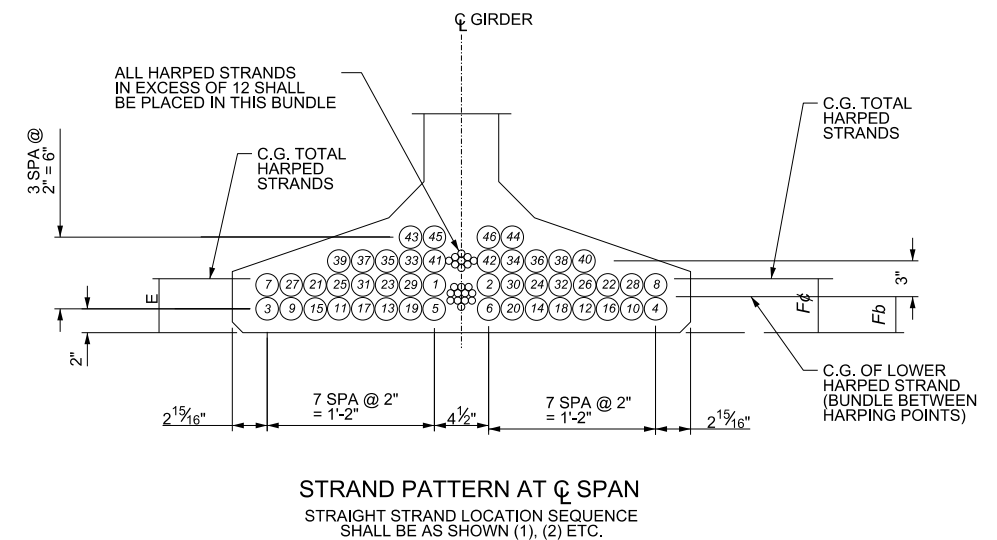
STD. DWG. NO.

**G - 1**

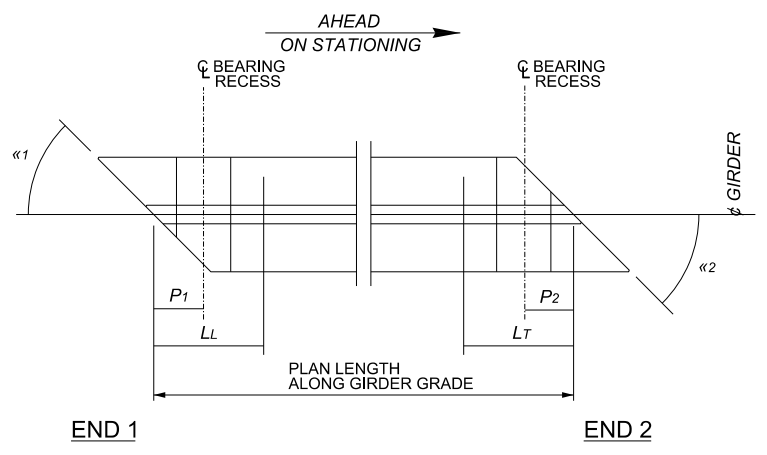
DRAFT - NOT RELEASED FOR CONSTRUCTION



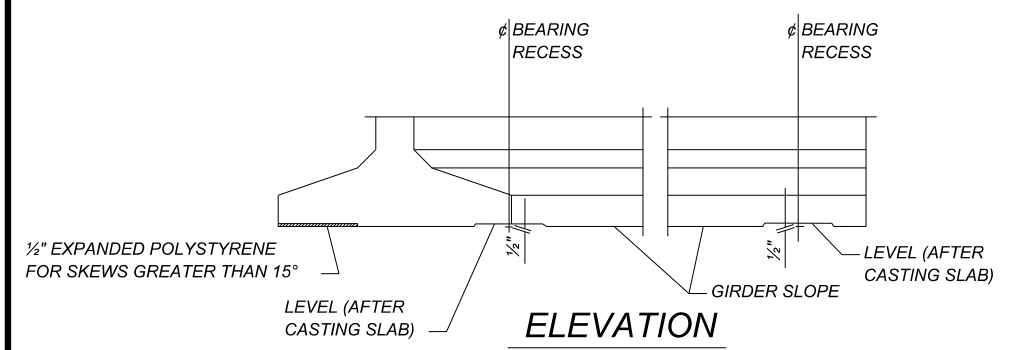
STRAND PATTERN  
AT GIRDER END  
HARPED STRAND LOCATION SEQUENCE  
SHALL BE AS SHOWN (1), (2) ETC.



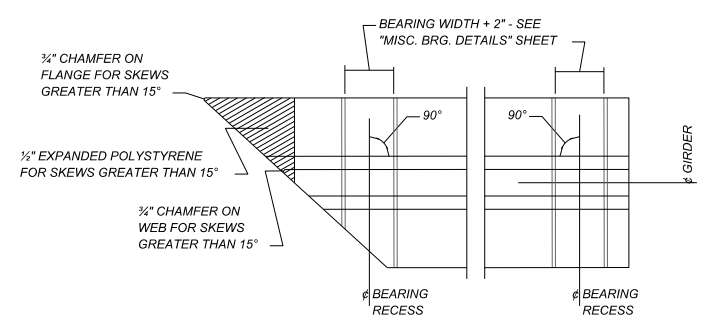
STRAND PATTERN AT  $\phi$  SPAN  
STRAIGHT STRAND LOCATION SEQUENCE  
SHALL BE AS SHOWN (1), (2) ETC.



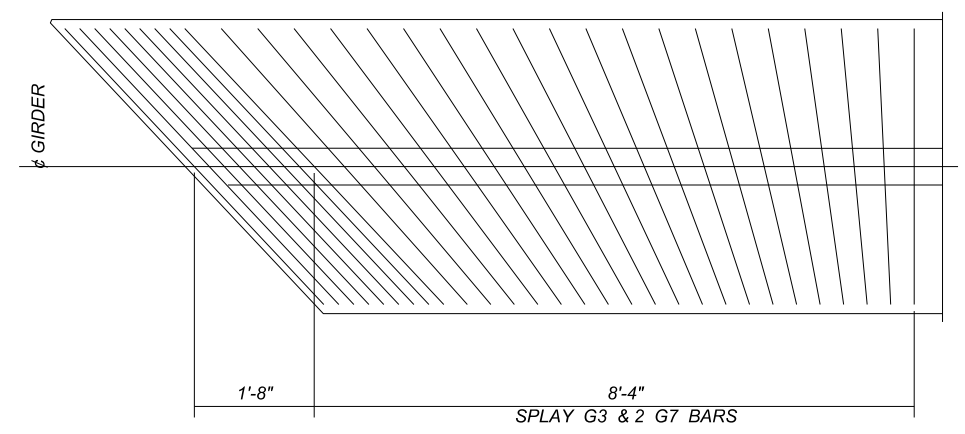
NOTE:  
LL AND LT ARE SHIPPING SUPPORT  
LOCATIONS AT LEADING AND TRAILING  
ENDS, RESPECTIVELY



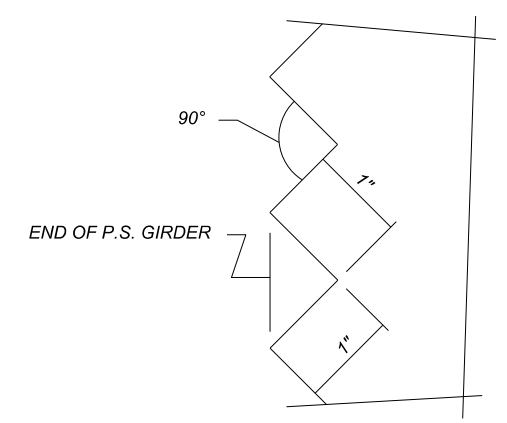
ELEVATION



BEARING RECESS AND BOTTOM  
FLANGE SPALL PROTECTION DETAIL



TRANSVERSE REINFORCING SKEWED ENDS  
ONLY TRANSVERSE REINF. SHOWN



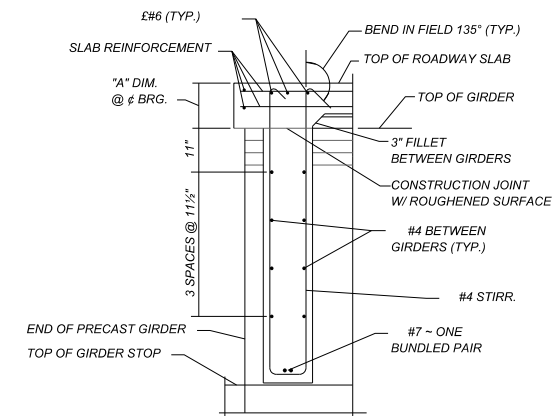
SAWTOOTH DETAILS

SAWTEETH ARE FULL WIDTH - USE SAWTOOTH KEYS  
FROM BOTTOM OF BOTTOM FLANGE TO BOTTOM OF  
LOWEST HARPED STRAND AS WELL AS TOP FLANGE  
ADJACENT TO HARPED STRANDS AS SHOWN IN  
VIEW B - GIRDER DETAILS 1 OF 3

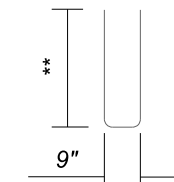
REVISIONS					REMARKS
NO.	DATE	APPR.	DATE	NO.	

UTAH DEPARTMENT OF TRANSPORTATION STANDARD DRAWINGS FOR ROAD AND BRIDGE CONSTRUCTION SALT LAKE CITY, UTAH		RECOMMENDED FOR APPROVAL		CHAIRMAN STANDARDS COMMITTEE APPROVED		DATE
		DEPUTY DIRECTOR		APPROVED		DATE

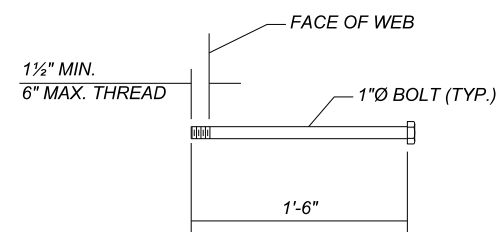
STD. DWG. NO.	
G - 2	



SECTION A  
—



\*\* DISTANCE FROM TOP OF GIRDER  
TO BOTTOM OF DIAPHRAGM + "A"



### ROADWAY EXPANSION JOINT AT END PIERS

LONGITUDINAL DIMENSIONS ARE NORMAL TO SKEW.  
GIRDER STOP NOT SHOWN FOR CLARITY.

[illegible]

**UTAH DEPARTMENT OF TRANSPORTATION**  
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APPROVED

DEPUTY DIRECTOR

DATE \_\_\_\_\_

DATE \_\_\_\_\_

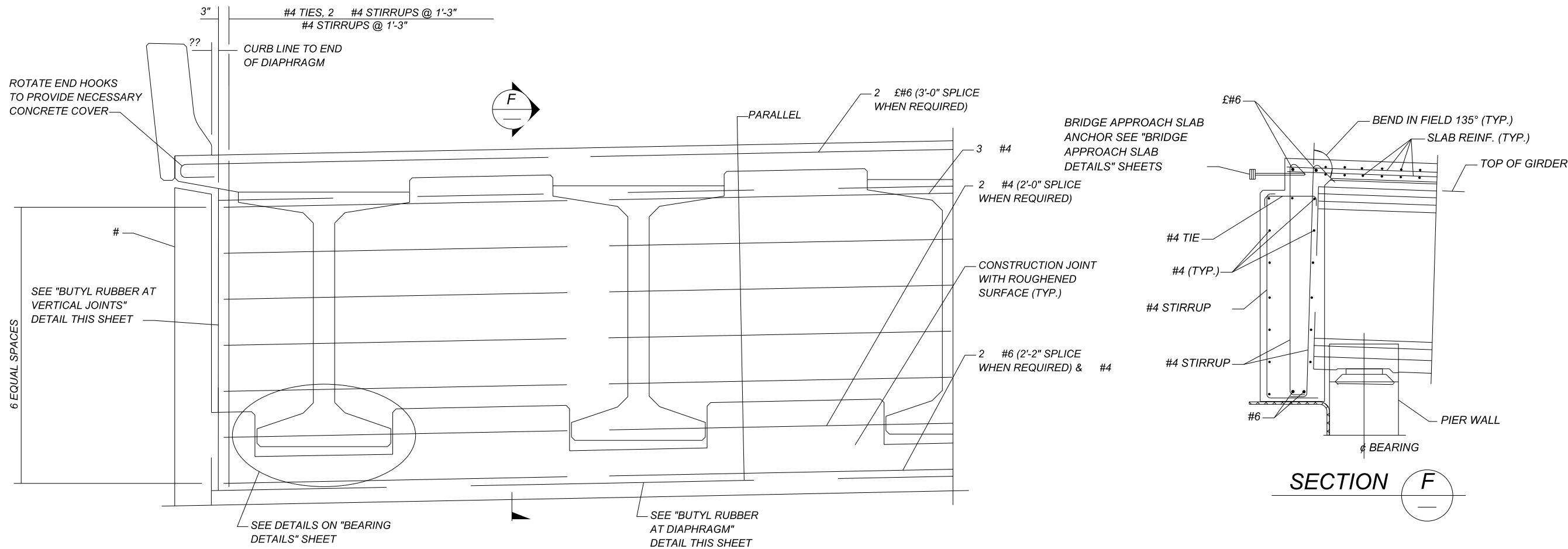
DATE \_\_\_\_\_

APPR.

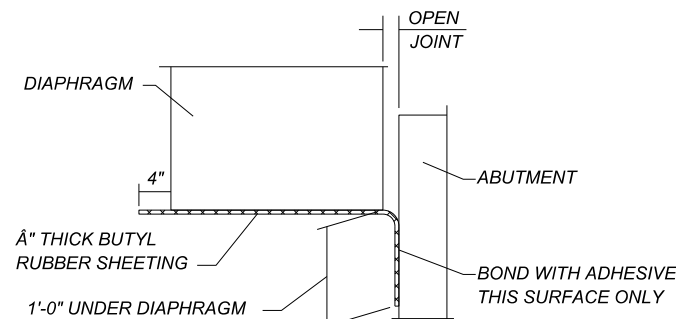
REMARKS

STD. DWG. NO.

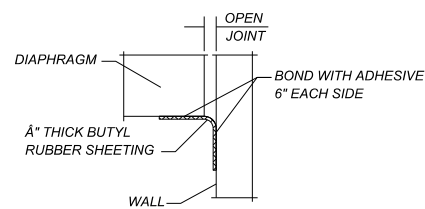
**G - 3**



**ELEVATION  
END DIAPHRAGM**  
DIMENSIONS ARE ALONG DIAPHRAGM



**ELEVATION  
BUTYL RUBBER  
AT DIAPHRAGM**

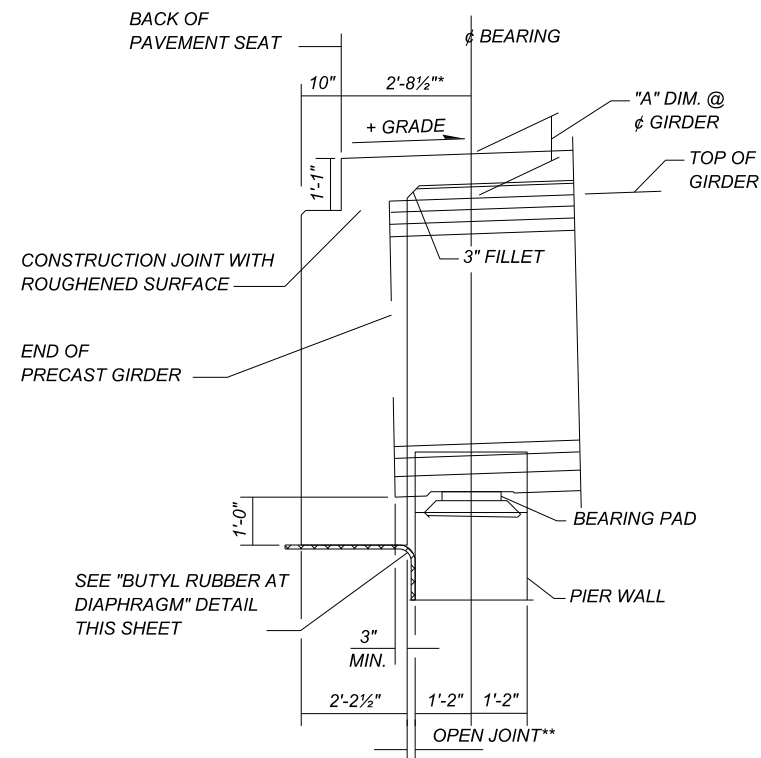


**PLAN  
BUTYL RUBBER  
AT VERTICAL JOINTS**

Bridge length	Open Joint
L < 200'	** = 1.5"
200' < L < 300'	** = 2.0"
300' < L < 400'	** = 2.5"
L > 400'	Special design

\* Revise based on size of Open Joint

NOTE:  
GIRDERS SHALL BE HELD RIGIDLY IN PLACE WHEN DIAPHRAGMS ARE PLACED.



**END DIAPHRAGM GEOMETRY**

SEE "GIRDER DETAILS" SHEET FOR DIMENSION "A".  
ALL LONGITUDINAL DIMENSIONS ARE NORMAL TO SKEW.

REVISIONS

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NO.

REMARKS

STD. DWG. NO.

G - 4

DRAFT - NOT RELEASED FOR CONSTRUCTION

FIELD BENDING REQUIRED  
TO OBTAIN 1½"  
CONCRETE COVER AT  
PAVEMENT SEAT.



ONLY TRANSVERSE REINFORCING SHOWN

3'-0" 4'-6"

2 G1 #5, G3 #5 & 2 G7 #3

3" 3" 3"

2 G1 #5, 2 G2 #5, G3 #5 & 2 G7 #3

9 SPA. @ 3" 6" 8 SPA. @ 6"

2 G2 #5, G3 #5 & 2 G7 #3

9" SPA. @ 1'-0" 10 SPA. @ 6" = 5'-0" 6 SPA. @ 3" = 1'-6"

2'-0" 1'-0" 1'-0"

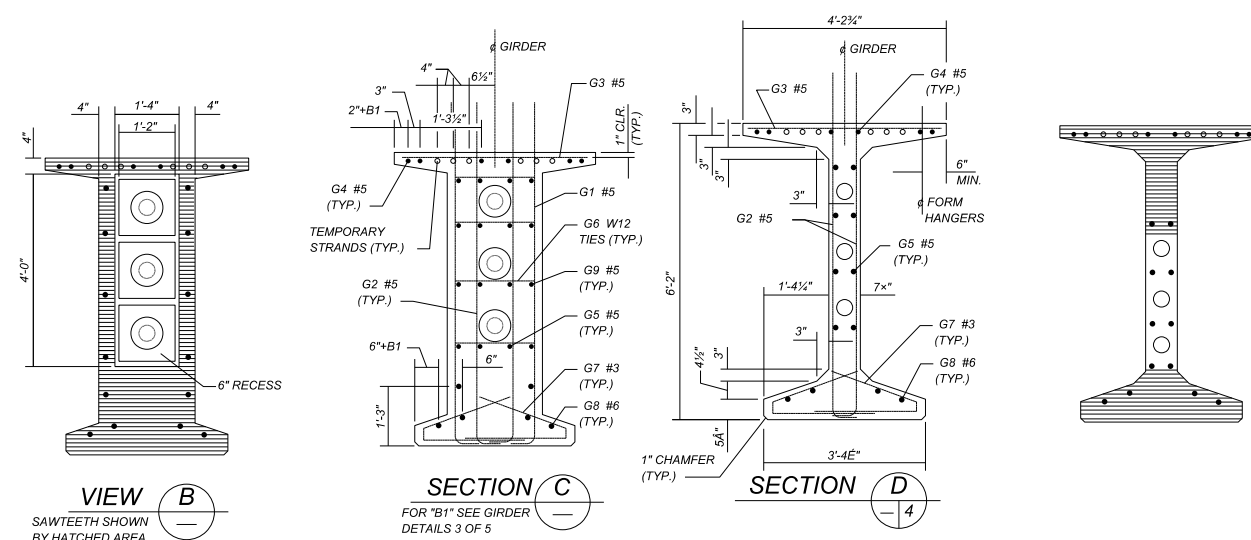
Ø GIR.

G6 W12 TIES (TYP.)

G9 #5

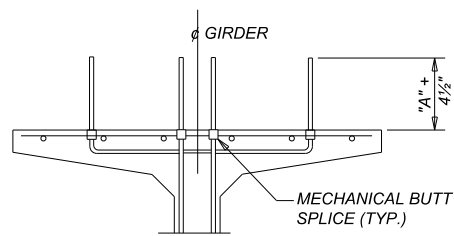
G5 #5

SECTION A



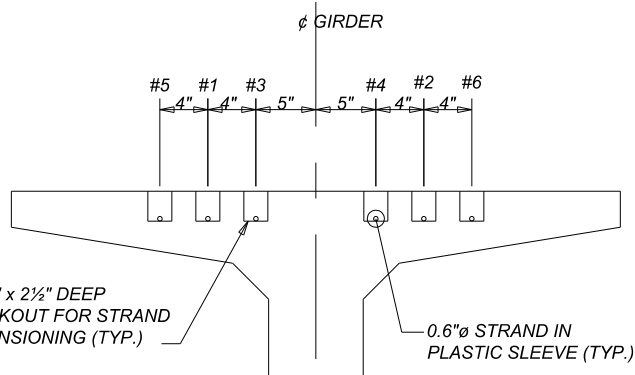
**G - 5**



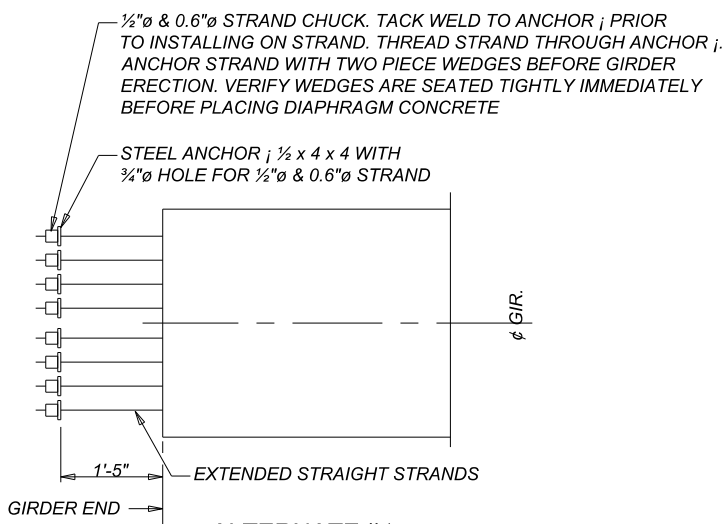


ALTERNATE STIRRUP DETAIL

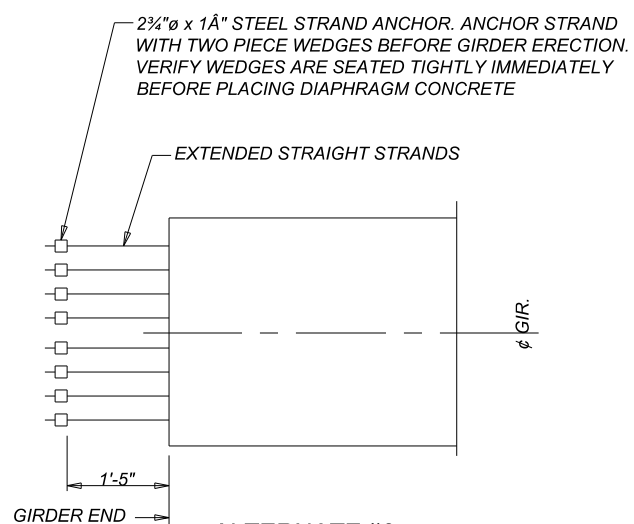
2" x 2" x 2 1/2" DEEP BLOCKOUT FOR STRAND DETENSIONING (TYP.)



SECTION A

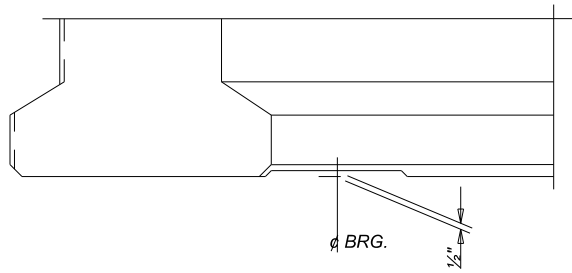


ALTERNATE #1

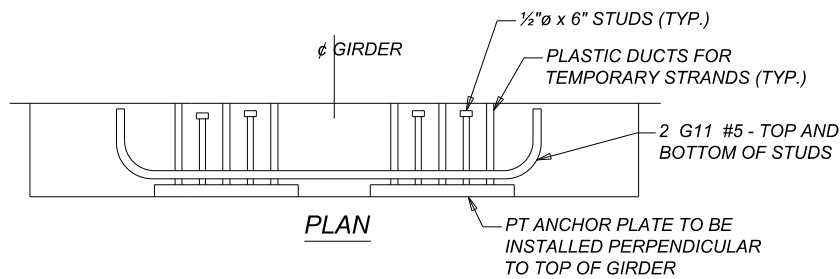


ALTERNATE #2

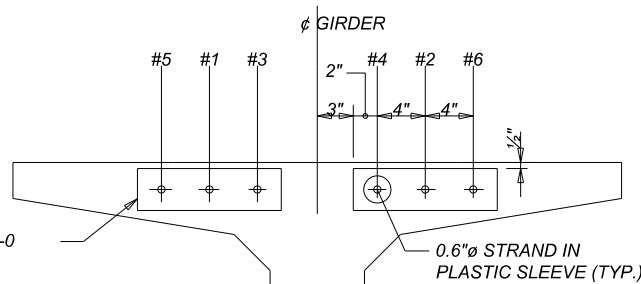
STRAND EXTENSION DETAIL



ELEVATION



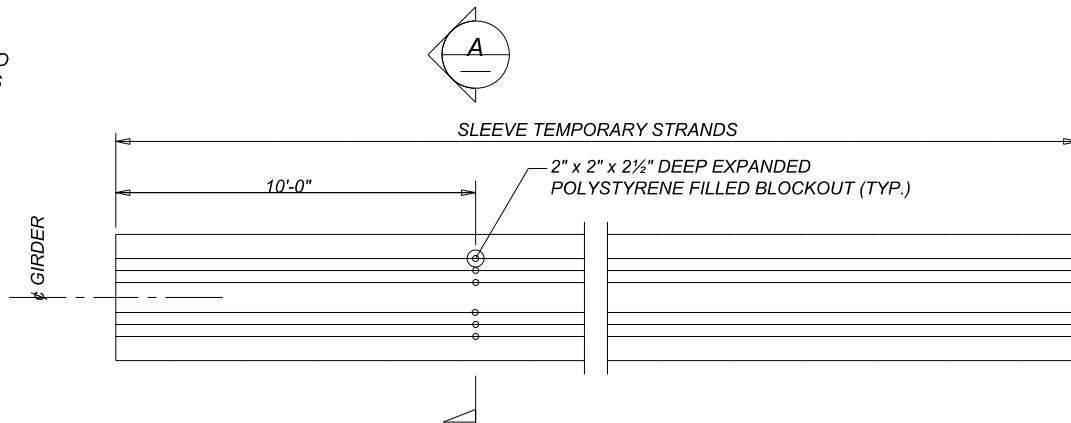
PLAN



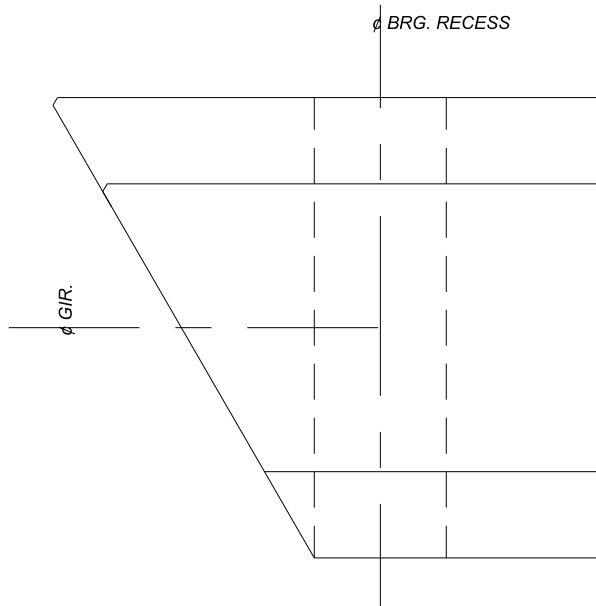
ELEVATION

TEMPORARY STRAND PATTERN AT TOP FLANGE GIRDER END

ADJUST G4 #5 BARS TO CLEAR THE STEEL PLATE



PLAN VIEW OF TEMPORARY STRANDS



PLAN

BOTTOM FLANGE

REVISIONS

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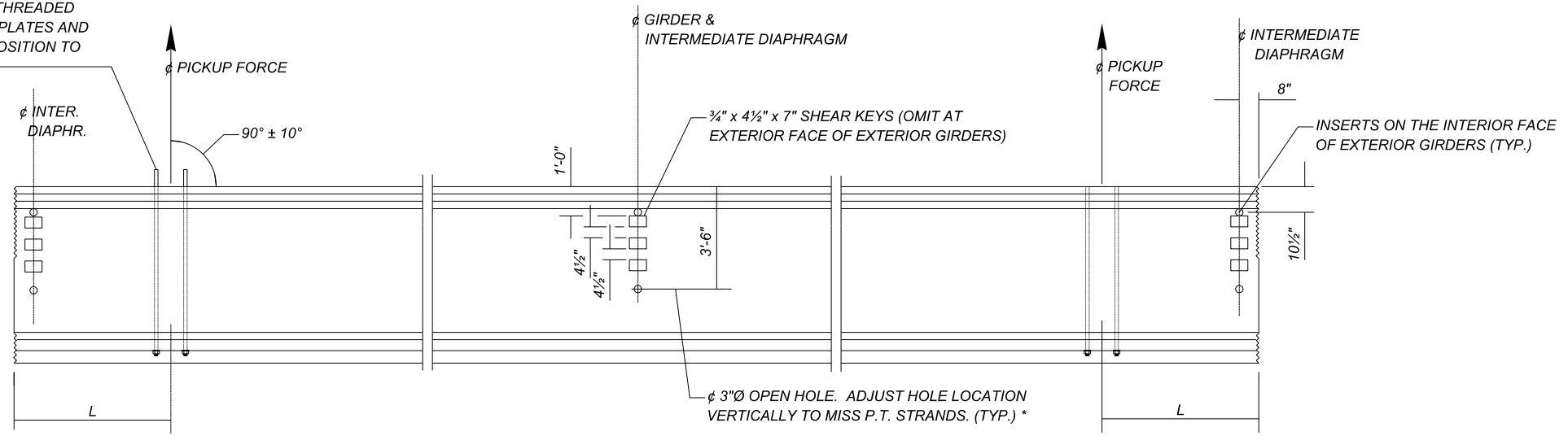
REMARKS

STD. DWG. NO.

G - 7

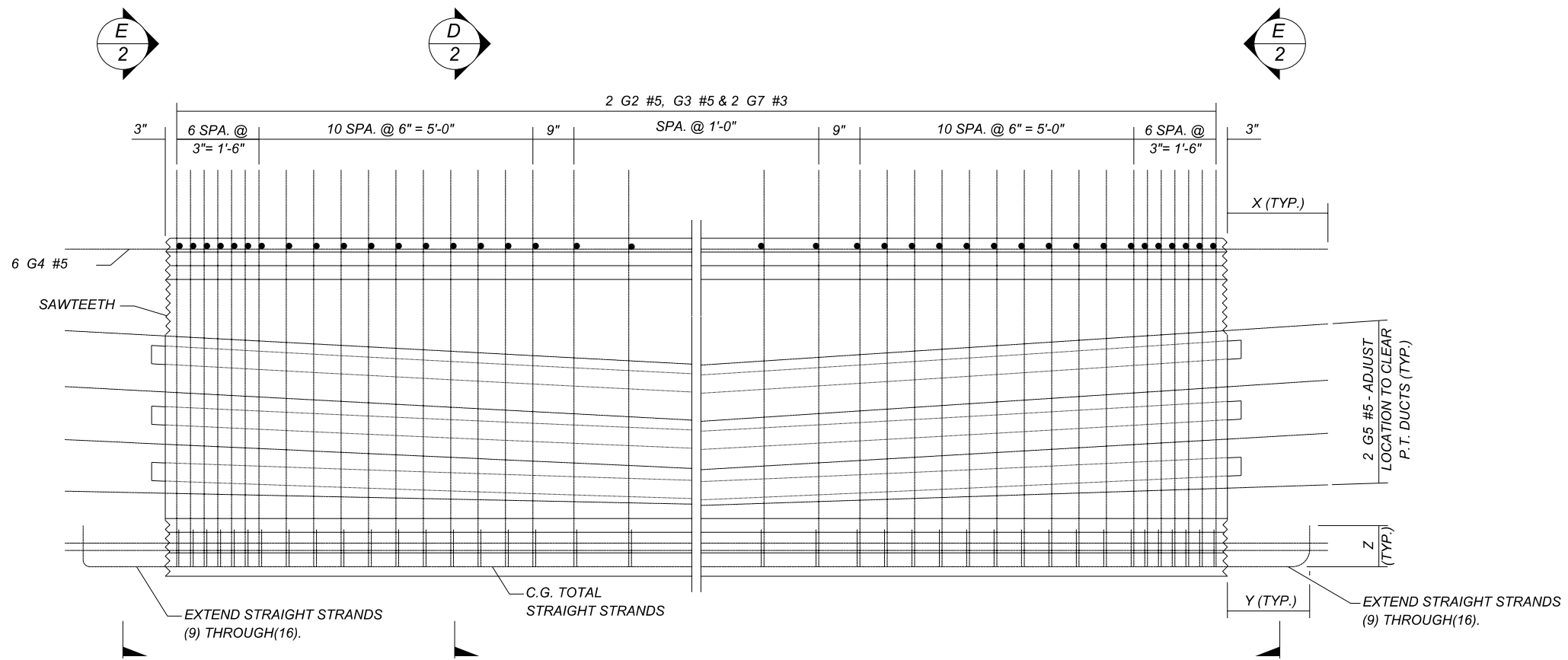


LIFTING BARS ~ H.S. THREADED BARS WITH ANCHOR PLATES AND NUTS AT BOTTOM. POSITION TO AVOID P.T. DUCTS.



GIRDER ELEVATION  
MID-SEGMENT

\*OMIT HOLES AND PLACE INSERTS ON THE INTERIOR FACE OF EXTERIOR GIRDERS. PLACE HOLES AND INSERTS PARALLEL TO SKEW. INSERTS SHALL BE 1"Ø BURKE HI-TENSILE, LANCASTER MALLEABLE, DAYTON-SUPERIOR F-62 FLARED THIN SLAB (1" x 4Ø") FERRULE INSERT OR APPROVED EQUAL. (TYP.) \*



ELEVATION  
MID-SEGMENT REINFORCING

REVISIONS

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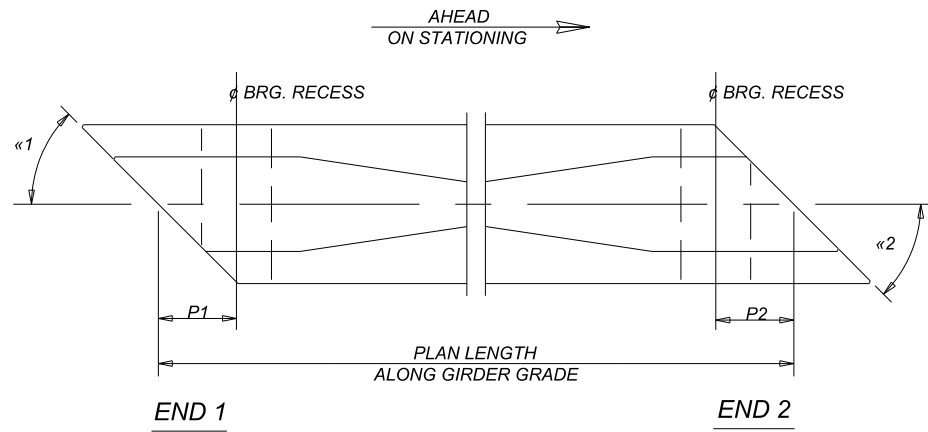
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REMARKS

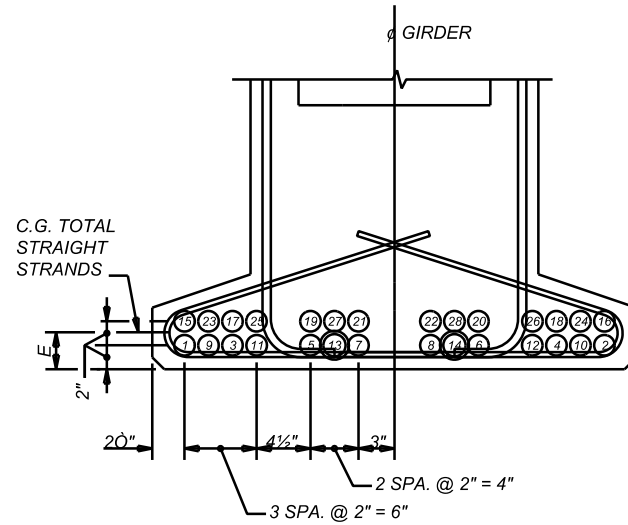
STD. DWG. NO.

G - 8

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\$files\$



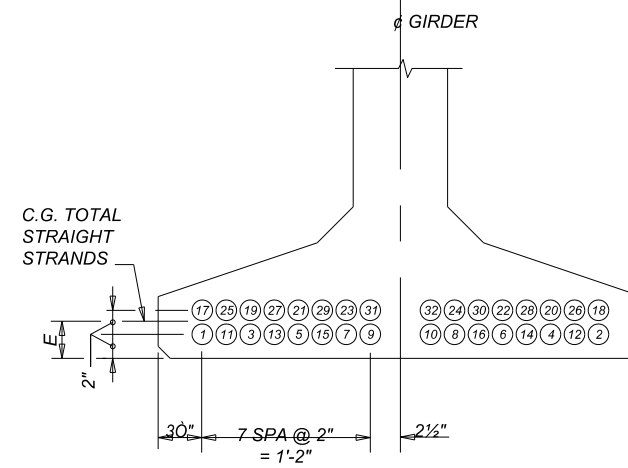
**GIRDER PLAN**



**STRAND PATTERN  
PRECAST END SEGMENTS**

STRAIGHT STRAND LOCATION SEQUENCE SHALL BE AS  
SHOWN: (1), (2), (3), ETC.

○ - INDICATES DEBONDED STRAND.



**STRAND PATTERN  
PRECAST MID-SEGMENTS**

STRAIGHT STRAND LOCATION SEQUENCE SHALL BE AS  
SHOWN: (1), (2), (3), ETC.

○ - INDICATES DEBONDED STRAND.

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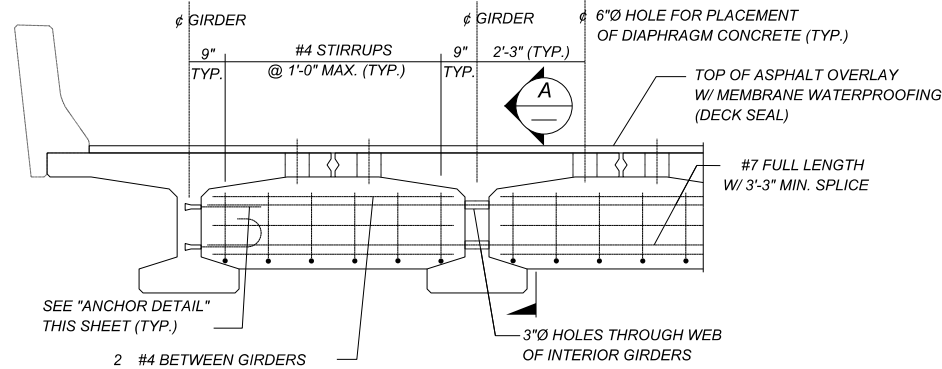
REMARKS

STD. DWG. NO.

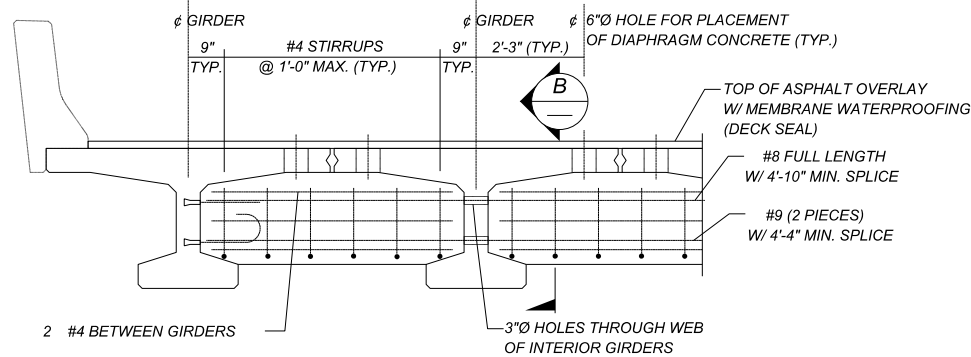
**G - 9**

DRAFT - NOT RELEASED FOR CONSTRUCTION

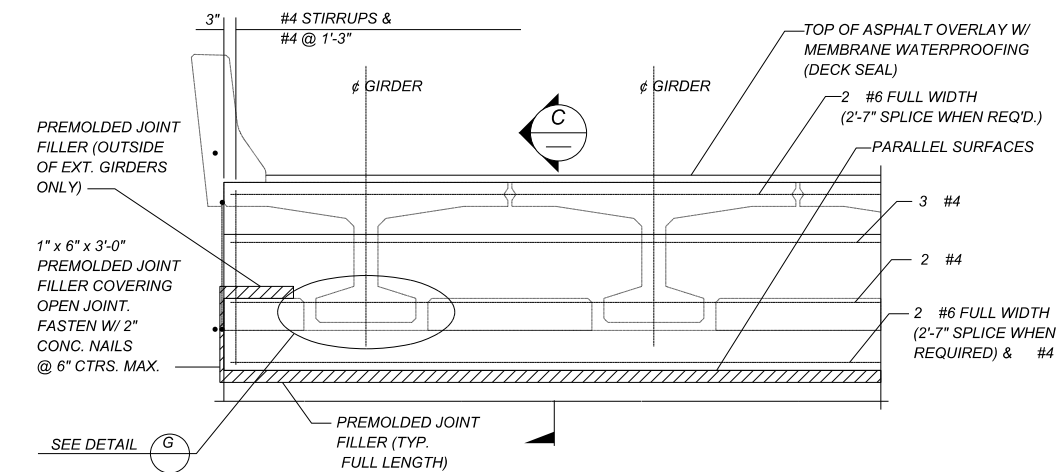




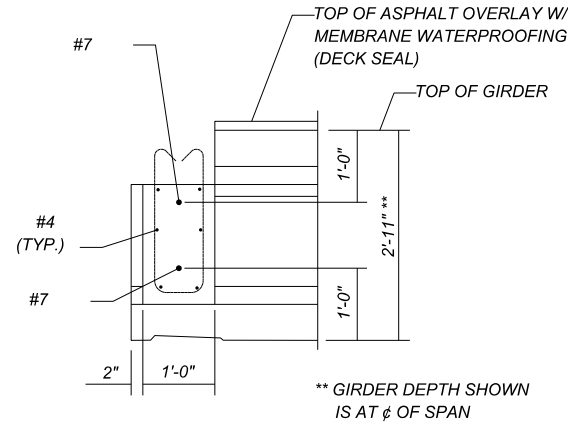
**ELEVATION - TYPICAL END DIAPHRAGM  
AT INTERMEDIATE PIERS**  
CONCRETE CLASS 4000, CAST IN PLACE



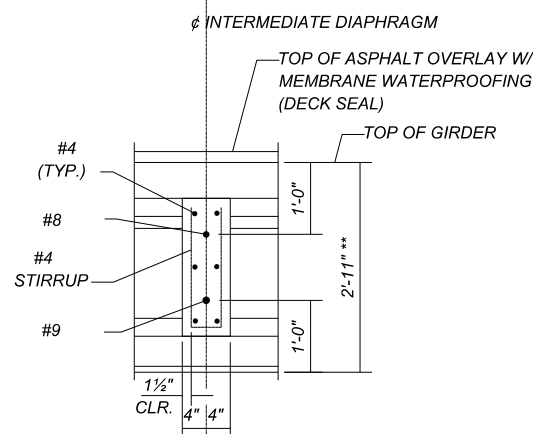
**ELEVATION - TYPICAL INTERMEDIATE DIAPHRAGM**  
CONCRETE CLASS 4000, CAST IN PLACE



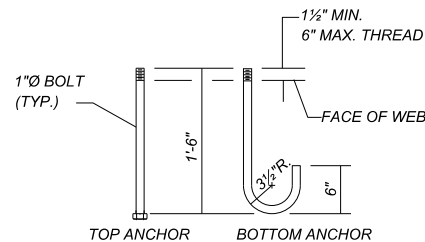
**ELEVATION - TYPICAL END DIAPHRAGM  
AT END PIERS**  
CONCRETE CLASS 4000, CAST IN PLACE



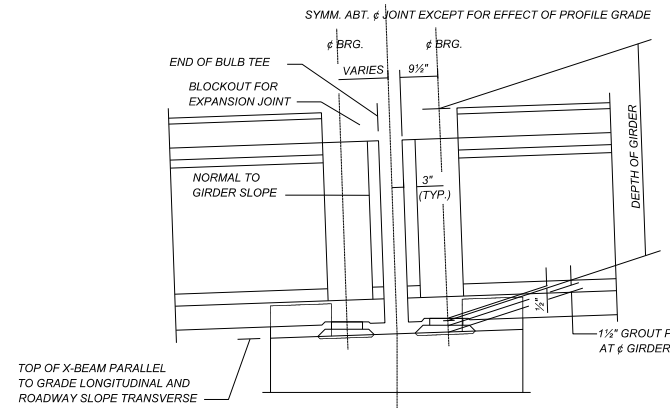
**SECTION A**  
LONGIT. DIMENSIONS  
ARE NORMAL TO SKEW



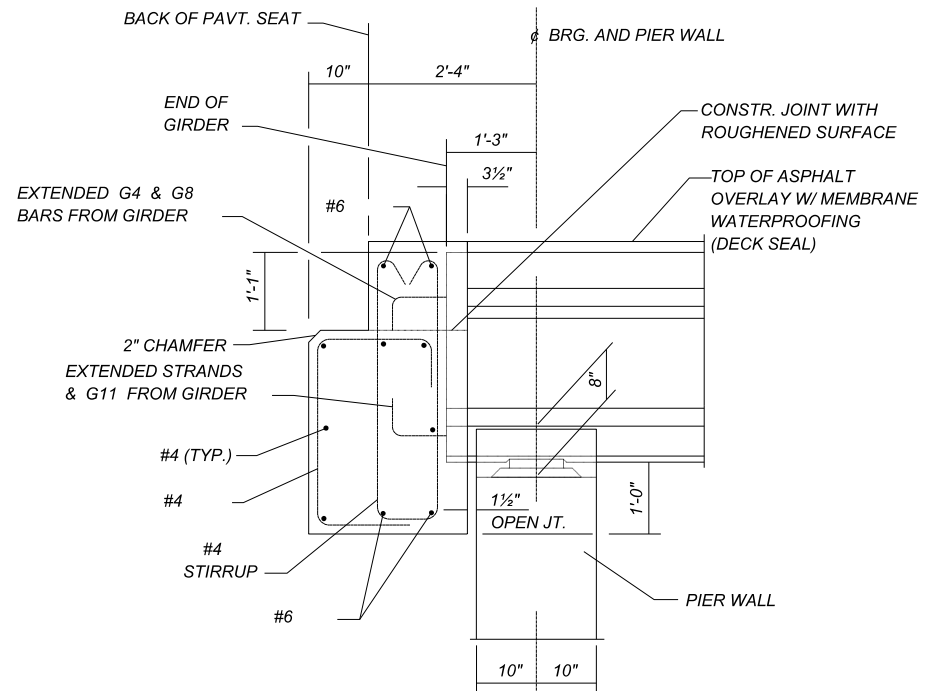
**SECTION B**



**ANCHOR DETAIL**  
A.S.T.M. A-307



**END DIAPHRAGMS  
AT INTERMEDIATE PIER**  
LONGITUDINAL DIMENSIONS ARE NORMAL TO PIER



**SECTION C**  
ALL LONGITUDINAL  
DIMENSIONS SHOWN  
ARE NORMAL TO  $\phi$  BRG.

REVISIONS

UTAH DEPARTMENT OF TRANSPORTATION  
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REMARKS

STD. DWG. NO.

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